

STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 147801

TO: Emily M Le
Location: 3c35/3c18
Art Unit: 1648
Tuesday, March 22, 2005

Case Serial Number: 10/764356

From: Noble Jarrell
Location: Biotech-Chem Library
Rem 1B71
Phone: 272-2556

Noble.jarrell@uspto.gov

Search Notes

P. 3-8, Para App

* 8, 12, 138

73- First 10 of Sec 3 in HEA plus

Search Notes

147801

Jarrell, Noble

From: Le, Emily
Sent: Monday, March 14, 2005 6:30 PM
To: Jarrell, Noble
Subject: Sequence Search: 10/764356

Noble,

Please provide a sequence search for the following:

1. cdafcsirgkr
2. cdafc[~]ssrgkv
3. rgk[~][~][~]

please also provide an STN text search of item nos. 1-2 with HIV as the keyword.

Thanks, Noble!

Emily Le
Office, Rem 3C35
Mailbox, Rem 3C18
Tel., 2-0903

Noble

fin 3/22/05

101 REP

32 ONL

RG71 STR

4 STR

=> d his

(FILE 'HOME' ENTERED AT 09:38:10 ON 22 MAR 2005)

FILE 'HCAPLUS' ENTERED AT 09:38:16 ON 22 MAR 2005

E REID P/AU
L1 122 E3-15
E REID PAUL/AU
L2 41 E3-9
E RAYMOND L/AU
L3 84 E3-12
E RAYMOND LAWRENCE
E RAYMOND LAWRENCE/AU
L4 13 E3-7
L5 0 L1-2 AND L3-4
E HIV/CT
E E3+ALL
E E2
E 3+ALL
E HUMAN IMMUNODEFICIENCY VIRUS/CT
E E3+ALL
L6 45631 HUMAN IMMUNODEFICIENCY VIRUS+OLD, NT/CT
L7 16614 ANIMAL VIRUS+OLD/CT (L) (AIDS (1A) RETRO? OR HUMAN (1A) IMMUNOD
E E20
E E3+ALL
L8 16127 "AIDS (DISEASE)" +OLD, NT/CT
E IMMUNODEFICIENCY/CT
E E3+ALL
L9 16133 IMMUNODEFICIENCY+NT/CT (L) (ACQUIRED (1A) IMMUNE (1A) DEFIC? (1
L10 1 L1-4 AND L6-9

FILE 'REGISTRY' ENTERED AT 09:45:34 ON 22 MAR 2005

FILE 'HCAPLUS' ENTERED AT 09:45:35 ON 22 MAR 2005

L11 TRA L10 1- RN : 2 TERMS

FILE 'REGISTRY' ENTERED AT 09:45:36 ON 22 MAR 2005

L12 2 SEA L11

FILE 'WPIX' ENTERED AT 09:45:41 ON 22 MAR 2005

E REID P/AU
L13 73 E3-18
E RAYMOND L/AU
L14 30 E3-9
L15 2 L13 AND L14

=> b hcap

FILE 'HCAPLUS' ENTERED AT 09:47:01 ON 22 MAR 2005

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FILE COVERS 1907 - 22 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 21 Mar 2005 (20050321/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d all 110 tot

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:713091 HCAPLUS
DN 135:262241
ED Entered STN: 28 Sep 2001
TI Immunokine composition and method for preventing HIV infection
IN Mundschenk, David D.; Reid, Paul F.
PA Phylomed Corporation, USA
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K
CC 63-6 (Pharmaceuticals)
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001070173	A2	20010927	WO 2001-US8150	20010314
WO 2001070173	A3	20020314		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2404078	AA	20010927	CA 2001-2404078	20010314
AU 2001049194	A5	20011003	AU 2001-49194	20010314
EP 1272512	A2	20030108	EP 2001-922384	20010314
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2003211465	A1	20031113	US 2002-292164	20021112
PRAI US 2000-533454	A	20000323		
US 1996-644399	B1	19960510		
US 1997-908212	A1	19970807		
US 1999-368834	A2	19990805		
WO 2001-US8150	W	20010314		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 2001070173	ICM	A61K
US 2003211465	ECLA	A61K038/17A; C07K001/113B; C07K014/46

AB A composition and method for preventing HIV infection of mammalian cells is disclosed. One aspect of the invention relates to an anti-immunodeficiency virus immunokine capable of binding to a cellular protein in a manner that prevents HIV infection of that cell. The compns. can include either an active bioactive polypeptide, such as native cobratoxin, and/or an inactivated bioactive polypeptide, such as cobratoxin in which one or more of the native disulfide bridges have been prevented from

forming. The term "immunokine" is used to refer to an inactivated bioactive polypeptide, whether inactivated by chemical, genetic, and/or synthetic means as described herein, with the proviso that a corresponding active bioactive polypeptide can be included where applicable (e.g., for in vitro use).

- ST immunokine compn HIV virustat cobra toxin
- IT Antigens
 - RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 - (CCR5, ligands; immunokine composition and method for preventing HIV infection)
- IT Antigens
 - RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 - (CXCR4, ligands; immunokine composition and method for preventing HIV infection)
- IT Receptors
 - RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 - (for HIV; immunokine composition and method for preventing HIV infection)
- IT Immunity
 - (humoral; immunokine composition and method for preventing HIV infection)
- IT Antiviral agents
 - Disulfide group
 - Drug delivery systems
 - Feline leukemia virus
 - Human immunodeficiency virus
 - Human immunodeficiency virus 1
 - Human immunodeficiency virus 2
 - Molecular cloning
 - Simian immunodeficiency virus
 - Venoms
 - (immunokine composition and method for preventing HIV infection)
- IT Toxins
 - RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 - (immunokine composition and method for preventing HIV infection)
- IT RNA
 - RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PREP (Preparation); PROC (Process)
 - (isolation of; immunokine composition and method for preventing HIV infection)
- IT CD4 (antigen)
 - Chemokine receptors
 - RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 - (ligands; immunokine composition and method for preventing HIV infection)
- IT Toxins
 - RL: BPR (Biological process); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 - (neurotoxins; immunokine composition and method for preventing HIV infection)
- IT Synapse
 - (postsynapse, toxins affecting; immunokine composition and method for preventing HIV infection)
- IT Conformation
 - (protein; immunokine composition and method for preventing HIV infection)
- IT Genetic engineering
 - (toxin modification by; immunokine composition and method for preventing HIV infection)

IT Ion channel
RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(toxins affecting; immunokine composition and method for preventing HIV infection)

IT Naja naja siamensis
(venom of; immunokine composition and method for preventing HIV infection)

IT 10028-15-6, Ozone, biological studies
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(toxin modification by; immunokine composition and method for preventing HIV infection)

IT 12584-83-7, Cobratoxin
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(.alpha.-chain of; immunokine composition and method for preventing HIV infection)

=> b reg

FILE 'REGISTRY' ENTERED AT 09:47:09 ON 22 MAR 2005
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STRUCTURE FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1
DICTIONARY FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide l12 tot

L12 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 12584-83-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Cobrotoxin (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Cobrotoxin (reduced) cyclic (3.fwdarw.24), (17.fwdarw.41), (43.fwdarw.54), (55.fwdarw.60)-tetrakis(disulfide)
FS PROTEIN SEQUENCE
DR 12769-46-9
MF C277 H435 N97 O98 S8
CI MAN
LC STN Files: BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MRCK*, NAPRALERT, PROMT, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

****RELATED SEQUENCES AVAILABLE WITH SEQLINK********* STRUCTURE DIAGRAM IS NOT AVAILABLE ********** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE *****

203 REFERENCES IN FILE CA (1907 TO DATE)

12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

203 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN

RN 10028-15-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN Ozone (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Atmospheric ozone

CN Oxygen, mol. (O3)

CN Ozone (O3)

CN Ozone(160160160)

CN Triatomic oxygen

DR 728855-47-8, 74087-86-8, 412908-40-8

MF O3

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, ACQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

0-0-0

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

56858 REFERENCES IN FILE CA (1907 TO DATE)

78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

56905 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> b wpix

FILE 'WPIX' ENTERED AT 09:47:25 ON 22 MAR 2005

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FILE LAST UPDATED: 21 MAR 2005 <20050321/UP>

MOST RECENT DERWENT UPDATE: 200519 <200519/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:

http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE

<http://thomsonderwent.com/coverage/latestupdates/> <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER

GUIDES, PLEASE VISIT:

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<<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT
DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
FIRST VIEW - FILE WPIFV.

FOR FURTHER DETAILS: <http://www.thomsonderwent.com/dwpifv> <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.

PLEASE CHECK:

<http://thomsonderwent.com/support/dwpioref/reftools/classification/code-revision/>
FOR DETAILS. <<<

=> d all 115 tot

L15 ANSWER 1 OF 2 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2005-141677 [15] WPIX

DNC C2005-046179

TI Treatment of pain associated with cancer, neurological conditions,
rheumatoid arthritis, and viral infections involves use of detoxified and
neurotropically active modified venom neurotoxin.

DC B04

IN RAYMOND, L; REID, P

PA (RAYM-I) RAYMOND L; (REID-I) REID P

CYC 1

PI US 2005031608 A1 20050210 (200515)* 8 A61K038-48

ADT US 2005031608 A1 US 2003-636458 20030806

PRAI US 2003-636458 20030806

IC ICM A61K038-48

ICS A61K038-46

AB US2005031608 A UPAB: 20050303

NOVELTY - Treatment of pain involves administering detoxified and
neurotropically active modified venom neurotoxin.

ACTIVITY - Analgesic. A 36 year old human male with a history of oral
herpes (herpes simplex type 1) assessed the effects of parenterally
administered oxidized alpha -cobratoxin on oral lesions. The subjected
discovered that the injection of the drug reduced pain associated with
nasal or labial herpetic lesions when administered at the first indication
of a prodrome. Also noted was a reduction in the usual size of the lesion
and healing period with continued administration consistent with
observations in other clinical studies on herpes virus.

MECHANISM OF ACTION - Acetylcholine receptor binders.

USE - For the treatment of pain (associated with cancer, neurological
conditions, degenerative bone diseases, rheumatoid arthritis and viral
infections).

Dwg. 0/0

FS CPI

FA AB; DCN

MC CPI: B04-B04G; B04-F11; B14-C01

L15 ANSWER 2 OF 2 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2004-708707 [69] WPIX

DNC C2004-249924

TI Treatment of animals suffering from neurological disorders, e.g. multiple
sclerosis, by administration of dosage of detoxified and neurotropically
active modified alpha-neurotoxin composition which targets nicotinic
acetylcholine receptors.

DC B04

IN RAYMOND, L; REID, P

PA (RAYM-I) RAYMOND L; (REID-I) REID P

CYC 1
PI US 2004192594 A1 20040930 (200469)* 12 A61K038-16
ADT US 2004192594 A1 Provisional US 2002-351462P 20020128, US 2003-352335
20030127
PRAI US 2002-351462P 20020128; US 2003-352335 20030127
IC ICM A61K038-16
AB US2004192594 A UPAB: 20041027
NOVELTY - Animals suffering from neurological disorders are treated by
administering to the animal a disease mitigating dosage of a detoxified
and neurotropically active modified alpha -neurotoxin composition which
targets nicotinic acetylcholine receptors.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:
(a) vaccinating a subject comprising administering to the subject an
immunogenic amount of a detoxified and neurotropically active modified
neurotoxin composition with(out) the inclusion of an adjuvant; and
(b) a composition comprising an administrable form of a detoxified
and neurotropically active modified snake venom neurotoxin where Naja
venom neurotoxin is alpha -cobratoxin and the composition is atoxic.
ACTIVITY - Neuroprotective; Muscular-Gen.
MECHANISM OF ACTION - None given.
USE - For the treatment of animals suffering from neurological
disorders, e.g. amyotrophic lateral sclerosis (ALS), other spinal
atrophy, multiple sclerosis, myasthenia gravis, muscular dystrophy,
leukodystrophies, adrenomyeloneuropathy or ataxias (claimed).
ADVANTAGE - The inventive composition can provide subject
neurological condition benefits from improved nerve conduction and
modulation.
Dwg. 0/0
FS CPI
FA AB; DCN
MC CPI: B04-N02; B04-N03; B05-C07; B10-A22; B14-D01; B14-G01; B14-G02D;
B14-J02B1; B14-J05; B14-L06; B14-S01; B14-S11

=> b home
FILE 'HOME' ENTERED AT 09:47:31 ON 22 MAR 2005

=>

=> d his

(FILE 'HOME' ENTERED AT 09:38:10 ON 22 MAR 2005)

FILE 'HCAPLUS' ENTERED AT 09:38:16 ON 22 MAR 2005

E REID P/AU
L1 122 E3-15
E REID PAUL/AU
L2 41 E3-9
E RAYMOND L/AU
L3 84 E3-12
E RAYMOND LAWRENCE
E RAYMOND LAWRENCE/AU
L4 13 E3-7
L5 0 L1-2 AND L3-4
E HIV/CT
E E3+ALL
E E2
E 3+ALL
E HUMAN IMMUNODEFICIENCY VIRUS/CT
E E3+ALL
L6 45631 HUMAN IMMUNODEFICIENCY VIRUS+OLD,NT/CT
L7 16614 ANIMAL VIRUS+OLD/CT (L) (AIDS (1A) RETRO? OR HUMAN (1A) IMMUNOD
E E20
E E3+ALL
L8 16127 "AIDS (DISEASE)" +OLD,NT/CT
E IMMUNODEFICIENCY/CT
E E3+ALL
L9 16133 IMMUNODEFICIENCY+NT/CT (L) (ACQUIRED (1A) IMMUNE (1A) DEFIC? (1
L10 1 L1-4 AND L6-9

FILE 'REGISTRY' ENTERED AT 09:45:34 ON 22 MAR 2005

FILE 'HCAPLUS' ENTERED AT 09:45:35 ON 22 MAR 2005

L11 TRA L10 1- RN : 2 TERMS

FILE 'REGISTRY' ENTERED AT 09:45:36 ON 22 MAR 2005

L12 2 SEA L11

FILE 'WPIX' ENTERED AT 09:45:41 ON 22 MAR 2005

E REID P/AU
L13 73 E3-18
E RAYMOND L/AU
L14 30 E3-9
L15 2 L13 AND L14

FILE 'REGISTRY' ENTERED AT 09:48:34 ON 22 MAR 2005

L16 53 (CDAFCSIRGKR|CDAFCSSRGKV)/SQSP

FILE 'HCAPLUS' ENTERED AT 09:49:15 ON 22 MAR 2005

L17 1179 L16
L18 1 L17 AND L1-4
L19 1178 L17 NOT L18
L20 6 L19 AND L6-9
SEL HIT RN L20

FILE 'REGISTRY' ENTERED AT 09:50:02 ON 22 MAR 2005

L21 4 E1-4

FILE 'HCAPLUS' ENTERED AT 09:51:09 ON 22 MAR 2005

SEL HIT RN L18

FILE 'REGISTRY' ENTERED AT 09:51:19 ON 22 MAR 2005

L22 3 E5-7
L23 STR
L24 2 L23 CSS
L25 1088 L23 CSS FULL
SAV TEM L25 LE356F0/A
L26 STR
L27 1 L26 CSS
L28 1000 L26 CSS FULL
SAV TEM LE356F1/A L28

FILE 'HCAPLUS' ENTERED AT 10:02:51 ON 22 MAR 2005

L29 1326 L25 OR L28
L30 0 L29 AND L1-4
L31 0 RECEPTOPHARM?/CS, PA
L32 QUE PY<2004 OR AY<2004 OR PRY<2004
L33 1285 L29 AND L32
L34 169 L33 AND US/PC.B
SEL HIT RN L34 1-10

FILE 'REGISTRY' ENTERED AT 10:06:05 ON 22 MAR 2005

L35 19 E8-26

=> b reg

FILE 'REGISTRY' ENTERED AT 10:07:01 ON 22 MAR 2005

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STRUCTURE FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1
DICTIONARY FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sqide 122 tot

L22 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 199387-04-7 REGISTRY
CN L-Valine, L-cysteinyl-L-.alpha.-aspartyl-L-alanyl-L-phenylalanyl-L-
cysteinyl-L-seryl-L-seryl-L-arginylglycyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: US20040192594 TABLE: 1 unclaimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 11

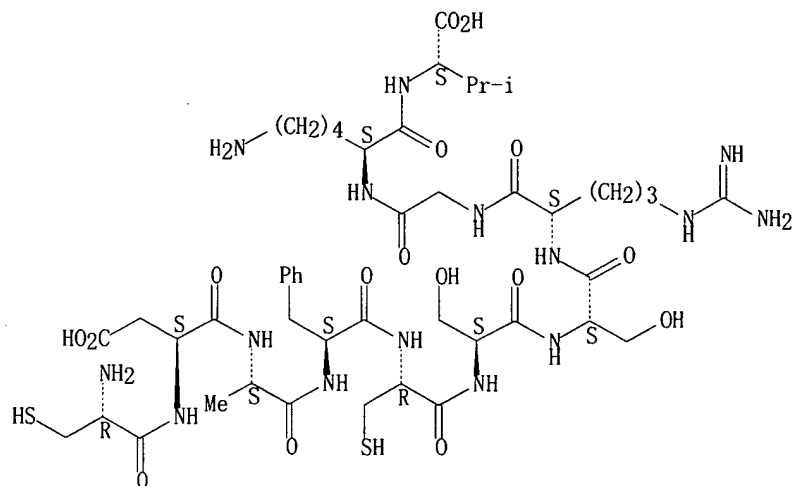
PATENT ANNOTATIONS (PNTE):
Sequence |Patent

Form 48

Source	Reference
Not Given	US2004192594
	unclaimed
	TABLE 1

SEQ 1 CDAFCSSRGK V
 MF C47 H77 N15 O16 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA CAPLUS document type: Journal; Patent
 RL.P Roles from patents: PRP (Properties)
 RL.NP Roles from non-patents: PRP (Properties)

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

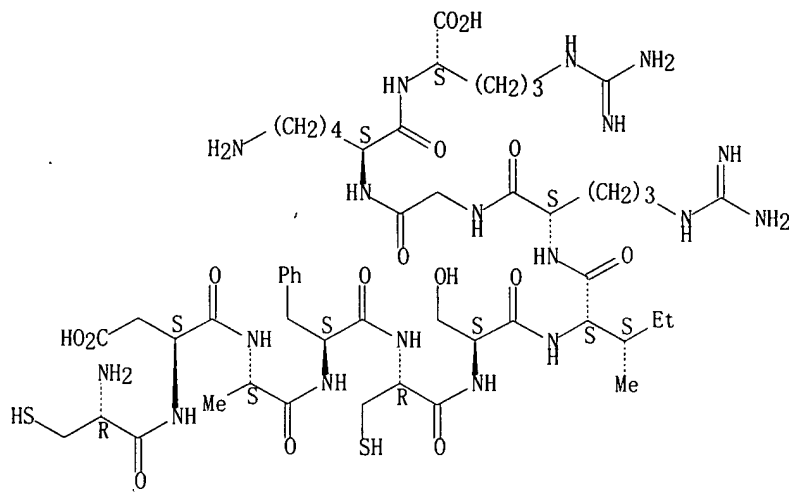
L22 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 199387-03-6 REGISTRY
 CN L-Arginine, L-cysteinyl-L-.alpha.-aspartyl-L-alanyl-L-phenylalanyl-L-cysteinyl-L-seryl-L-isoleucyl-L-arginylglycyl-L-lysyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3: PN: US20040192594 TABLE: 1 unclaimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 11

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
Not Given	US2004192594
	unclaimed
	TABLE 1

SEQ 1 CDAFCSIRGK R
 MF C51 H86 N18 O15 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PRP (Properties)
 RL.NP Roles from non-patents: PRP (Properties)

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L22 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 11032-79-4 REGISTRY
 CN .alpha.-Bungarotoxin (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,2-Dithia-5,8,11,14,17-pentaazacycloeicosane, cyclic peptide deriv.
 CN 5H,10H-Dipyrrolo[2,1-v:2',1'-h1][1,2,5,8,11,14,17,20,23,26,29,32,35]dithia
 undecaazacyclooctatriacontine, cyclic peptide deriv.
 CN 86,18-(Iminoethaniminoethaniminoethaniminoethaniminomethano[2,1]-endo-
 pyrrolomethano[2,1]-endo-pyrrolomethano)-56,68-(methanodithiomethano)-
 1H,90H-pyrrolo[1,2-n3][1,2,69,70,5,8,11,14,17,20,23,26,29,32,35,38,41,44,4
 7,50,53,56,59,62,65,74,77,80,83,86,89,92,95,98,101,104,107,110]tetrathiate
 tratriacontaazacyclododecahectine, cyclic peptide deriv.
 OTHER NAMES:
 CN .alpha.-Bgt.
 CN .alpha.-Bungotoxin
 FS PROTEIN SEQUENCE
 SQL 74
 NTE

type	----- location -----	description
bridge	Cys-3 - Cys-23	disulfide bridge
bridge	Cys-16 - Cys-44	disulfide bridge
bridge	Cys-29 - Cys-33	disulfide bridge
bridge	Cys-48 - Cys-59	disulfide bridge
bridge	Cys-60 - Cys-65	disulfide bridge

Search done by Noble Jarrell

SEQ 1 IVCHTTATSP ISAVTCPPGE NLCYRKMWCD AFCSSRGKV ELGCAATCPS
51 KKPYYEVTCC STDKCNPHPK QRP

****RELATED SEQUENCES AVAILABLE WITH SEQLINK****

DR 12687-39-7

MF C338 H529 N97 0105 S11

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHM, DDFU, DRUGU, EMBASE, NAPRALERT,
NIOSTIC, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process);
RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties);
USES (Uses)

1112 REFERENCES IN FILE CA (1907 TO DATE)

63 REFERENCES TO NON-SPECIFIC DERIVATIVES-IN FILE CA

1112 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b hcap

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FILE COVERS 1907 - 22 Mar 2005 VOL 142 ISS 13

FILE LAST UPDATED: 21 Mar 2005 (20050321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all 118 tot

L18 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:802540 HCAPLUS
 DN 141:325758
 ED Entered STN: 01 Oct 2004
 TI Modified neurotoxins as therapeutic agents for the treatment of
 neurological and viral diseases, and methods for their production
 IN Reid, Paul; Raymond, Laurence
 PA USA
 SO U.S. Pat. Appl. Publ., 13 pp., Cont. of U.S. Provisional Ser. No. 351,462.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM A61K038-16
 NCL 514012000
 CC 1-11 (Pharmacology)
 Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004192594	A1	20040930	US 2003-352335	20030127
PRAI	US 2002-351462P	P	20020128		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004192594	ICM	A61K038-16
	NCL	514012000
US 2004192594	ECLA	A61K038/17A

AB A method is disclosed for treatment of neurol. and viral diseases and especially
 for the treatment of heretofore intractable diseases such as rabies,
 myasthenia gravis, HIV dementia, muscular dystrophy, multiple sclerosis,
 and amyotrophic lateral sclerosis, through modulation or blockade of the
 nicotinic acetylcholine receptor. Also disclosed is a treatment composition of
 matter and methods of making same. Treatment is based on the fact that
 certain modified .alpha.-neurotoxins have the ability to attach to or
 otherwise modulate the nicotinic acetylcholine receptor by blocking
 attachment or involvement with pathogenic organisms, viruses, or proteins
 with potentially deleterious functions. The modified .alpha.-neurotoxins
 may be derived from various venoms including certain genera of snakes and
 Conus snails and are prepared by detoxification of the purified neurotoxins
 or contained in whole venom. The native neurotoxin or venom may be
 detoxified by controlled oxygenation. A novel high temperature technique is
 also described. Alternatively, the specific neurotoxin may be generated
 through cloning or synthetic techniques with mutations or non-native amino
 acids substituted to reduce the affinity of the resulting neurotoxin for
 its receptor. The composition may also be produced from any venom which acts
 essentially as a neurotoxin as opposed to essentially a hematoxin.
 However, the composition must be derived from venoms which contains
 .alpha.-neurotoxins such as obtained from the genus Bungarus.

ST modified neurotoxin neurol viral disease treatment

IT Naja

(Naja venom neurotoxin; modified neurotoxins as therapeutic agents for
treatment of neurol. and viral diseases)

IT Brain, disease

(adrenomyeloneuropathy; modified neurotoxins as therapeutic agents for
treatment of neurol. and viral diseases)

IT Quaternary ammonium compounds, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(alkylbenzylidimethyl, chlorides; modified neurotoxins as therapeutic
agents for treatment of neurol. and viral diseases)

IT Nervous system, disease

(amyotrophic lateral sclerosis; modified neurotoxins as therapeutic

- agents for treatment of neurol. and viral diseases)
- IT Nervous system, disease
 - (ataxia; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Spinal column, disease
 - (atrophy; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Temperature effects, biological
 - (heat; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Nerve
 - (improved conduction and modulation; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (injections, i.m.; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (injections, i.v.; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (injections, s.c.; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (injections; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (intradermal; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Disease, animal
 - (leukodystrophy; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Antiviral agents
 - Drug delivery systems
 - Human
 - Multiple sclerosis
 - Muscular dystrophy
 - Myasthenia gravis
 - Naja hannah
 - Nervous system, disease
 - Nervous system agents
 - Rabies
 - Vaccines
 - (modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Nicotinic receptors
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Toxins
 - RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (neurotoxins, Naja venom neurotoxin; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Virus
 - (neurotropic; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (oral; modified neurotoxins as therapeutic agents for treatment of neurol. and viral diseases)
- IT Drug delivery systems
 - (otic; modified neurotoxins as therapeutic agents for treatment of

neuro. and viral diseases)

IT Venoms
(Snake; modified neurotoxins as therapeutic agents for treatment of neuro. and viral diseases)

IT Nerve
(toxicity, improved conduction and modulation; modified neurotoxins as therapeutic agents for treatment of neuro. and viral diseases)

IT Toxins
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(.alpha.-neurotoxin; modified neurotoxins as therapeutic agents for treatment of neuro. and viral diseases)

IT 51-83-2, Carbamylcholine chloride 54-11-5, Nicotine 57-94-3
7262-79-5, Suberyldicholine
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); BIOL (Biological study)
(modified neurotoxins as therapeutic agents for treatment of neuro. and viral diseases)

IT 11032-79-4, .alpha.-Bungarotoxin 59536-69-5, Erabutoxin
124511-67-7, .kappa.-Bungarotoxin 144637-68-3, .alpha.-Dendrotoxin
156467-85-5, .alpha.-Conotoxin Im I 345633-01-4, .alpha.-Cobrotoxin
769933-79-1, .alpha.-Cobratoxin 769933-79-1D, .alpha.-Cobratoxin, oxidized 769935-09-3, .alpha.-Conotoxin G 1 769935-42-4,
.alpha.-Conotoxin M 1 769935-53-7, .alpha.-Conotoxin S 1 769935-58-2,
.alpha.-Conotoxin S 1A
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(modified neurotoxins as therapeutic agents for treatment of neuro. and viral diseases)

IT 199387-03-6 199387-04-7 769122-37-4 769122-38-5
769122-39-6 769122-40-9 769122-41-0
RL: PRP (Properties)
(unclaimed sequence; modified neurotoxins as therapeutic agents for the treatment of neuro. and viral diseases, and methods for their production)

=> b reg

FILE 'REGISTRY' ENTERED AT 10:07:33 ON 22 MAR 2005
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STRUCTURE FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1
DICTIONARY FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sqide 121 tot

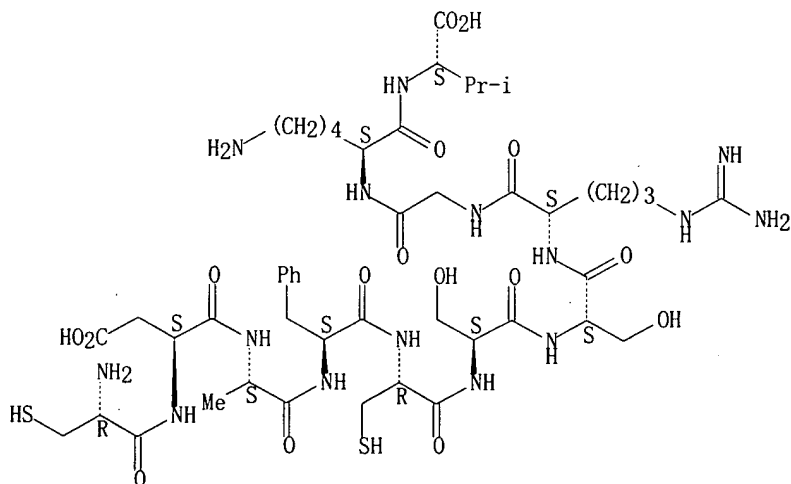
L21 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 199387-04-7 REGISTRY
 CN L-Valine, L-cysteinyl-L-.alpha.-aspartyl-L-alanyl-L-phenylalanyl-L-cysteinyl-L-seryl-L-seryl-L-arginylglycyl-L-lysyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1: PN: US20040192594 TABLE: 1 unclaimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 11

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
Not Given	US2004192594
	unclaimed
	TABLE 1

SEQ 1 CDAFCSSRGK V
 MF C47 H77 N15 O16 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PRP (Properties)
 RL.NP Roles from non-patents: PRP (Properties)

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L21 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 199387-03-6 REGISTRY
 CN L-Arginine, L-cysteinyl-L-.alpha.-aspartyl-L-alanyl-L-phenylalanyl-L-cysteinyl-L-seryl-L-isoleucyl-L-arginylglycyl-L-lysyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3: PN: US20040192594 TABLE: 1 unclaimed sequence

type	----- location -----	description
bridge	Cys-3 - Cys-20	disulfide bridge
bridge	Cys-14 - Cys-41	disulfide bridge
bridge	Cys-26 - Cys-30	disulfide bridge
bridge	Cys-45 - Cys-56	disulfide bridge
bridge	Cys-57 - Cys-62	disulfide bridge

SEQ 1 IRCFITPDIT SKDCPNGHVC YTKTWCD AFC SIRGKRVDLG CAATCPTVKT
51 GVDIQCSTD NCNPFPTKR P

****RELATED SEQUENCES AVAILABLE WITH SEQLINK****

MF C332 H520 N98 0101 S10

CI MAN

LC STN Files: ANABSTR, CA, CANCERLIT, CAPLUS, CHEMCATS, CSCHEM, MEDLINE, TOXCENTER, USPAT2, USPATFULL

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PRP (Properties); RACT (Reactant or reagent)

82 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

82 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L21 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 11032-79-4 REGISTRY

CN .alpha.-Bungarotoxin (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2-Dithia-5,8,11,14,17-pentaazacycloeicosane, cyclic peptide deriv.

CN 5H,10H-Dipyrrolo[2,1-v:2',1'-h1][1,2,5,8,11,14,17,20,23,26,29,32,35]dithia undecaazacyclooctatriacontine, cyclic peptide deriv.

CN 86,18-(Iminoethaniminoethaniminoethaniminoethaniminomethano[2,1]-endo-pyrrolomethano[2,1]-endo-pyrrolomethano)-56,68-(methanodithiomethano)-1H,90H-pyrrolo[1,2-n3][1,2,69,70,5,8,11,14,17,20,23,26,29,32,35,38,41,44,47,50,53,56,59,62,65,74,77,80,83,86,89,92,95,98,101,104,107,110]tetrathiate tratriacontaazacyclododecahectine, cyclic peptide deriv.

OTHER NAMES:

CN .alpha.-Bgt.

CN .alpha.-Bungotoxin

FS PROTEIN SEQUENCE

SQL 74

NTE

type	----- location -----	description
bridge	Cys-3 - Cys-23	disulfide bridge
bridge	Cys-16 - Cys-44	disulfide bridge
bridge	Cys-29 - Cys-33	disulfide bridge
bridge	Cys-48 - Cys-59	disulfide bridge
bridge	Cys-60 - Cys-65	disulfide bridge

SEQ 1 IVCHTTATSP ISAVTCPPGE NLCYRKMWCD AFCSSRGKVV ELGCAATCPS
51 KKPVEEVTCC STDKCNPHPK QRP

****RELATED SEQUENCES AVAILABLE WITH SEQLINK****

DR 12687-39-7
MF C338 H529 N97 0105 S11
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, NAPRALERT,
NIOSTIC, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process);
RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties);
USES (Uses)
1112 REFERENCES IN FILE CA (1907 TO DATE)
63 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1112 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FILE COVERS 1907 - 22 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 21 Mar 2005 (20050321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L20 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:733565 HCAPLUS
DN 142:127318
ED Entered STN: 09 Sep 2004
TI Galantamine and nicotine have a synergistic effect on inhibition of microglial activation induced by HIV-1 gp120

- AU Giunta, B.; Ehrhart, J.; Townsend, K.; Sun, N.; Vendrame, M.; Shytle, D.; Tan, J.; Fernandez, F.
- CS Neuroimmunology Laboratory, College of Medicine, University of South Florida, Tampa, FL, 33613, USA
- SO Brain Research Bulletin (2004), 64(2), 165-170
CODEN: BRBUDU; ISSN: 0361-9230
- PB Elsevier Inc.
- DT Journal
- LA English
- CC 1-11 (Pharmacology)
- AB Chronic brain inflammation is the common final pathway in the majority of neurodegenerative diseases and central to this phenomenon is the immunol. activation of brain mononuclear phagocyte cells, called microglia. This inflammatory mechanism is a central component of HIV-associated dementia (HAD). In the healthy state, there are endogenous signals from neurons and astrocytes, which limit excessive central nervous system (CNS) inflammation. However, the signals controlling this process have not been fully elucidated. Studies on the peripheral nervous system suggest that a cholinergic anti-inflammatory pathway regulates systemic inflammatory response by way of acetylcholine acting at the .alpha.7 nicotinic acetylcholine receptor (.alpha.7nAChR) found on blood-borne macrophages. Recent data from our laboratory indicates that cultured microglial cells also express this same receptor and that microglial anti-inflammatory properties are mediated through it and the p44/42 mitogen-activated protein kinase (MAPK) system. Here we report for the first time the creation of an in vitro model of HAD composed of cultured microglial cells synergistically activated by the addition of IFN-.gamma. and the HIV-1 coat glycoprotein, gp120. Furthermore, this activation, as measured by TNF-.alpha. and nitric oxide (NO) release, is synergistically attenuated through the .alpha.7 nAChR and p44/42 MAPK system by pretreatment with nicotine, and the cholinesterase inhibitor, galantamine. Our findings suggest a novel therapeutic combination to treat or prevent the onset of HAD through this modulation of the microglia inflammatory mechanism.
- ST nicotine galantamine synergistic drug interaction microglial activation HIV1 dementia
- IT Drug targets
Nicotinic antagonists
(co-pretreatment of mouse primary microglial cell with .alpha. 7nAChR inhibitor .alpha.-bungarotoxin reduced nicotine, galantamine inhibition on TNF-.alpha. production, NO release induced by HIV-1 gp120/IFN-.gamma. and reduced p44/42 MAPK phosphorylation)
- IT Anti-inflammatory agents
Human immunodeficiency virus 1
(co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)
- IT Tumor necrosis factors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)
- IT Mental disorder
(dementia; co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced HAD-like microglial activation through inhibiting .alpha.7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)
- IT Drug interactions
(synergistic; co-pretreatment with nicotine and galantamine

synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)

IT Nicotinic receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.alpha.7; co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)

IT Interferons

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.gamma.; co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)

IT 11032-79-4, .alpha.-Bungarotoxin

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(co-pretreatment of mouse primary microglial cell with .alpha. 7nAChR inhibitor .alpha.-bungarotoxin reduced nicotine, galantamine inhibition on TNF-.alpha. production, NO release induced by HIV-1 gp120/IFN-.gamma. and reduced p44/42 MAPK phosphorylation)

IT 9001-08-5, Cholinesterase 10102-43-9, Nitric oxide, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)

IT 54-11-5, Nicotine 357-70-0, Galantamine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)

IT 142243-02-5

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(p44/42; co-pretreatment with nicotine and galantamine synergistically reduced HIV-1 gp120/IFN-.gamma.-induced TNF-.alpha. production and NO release through inhibiting .alpha. 7nAChR and phosphorylation of p44/42 MAPK in mouse primary culture microglial cells)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

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- (2) Anderson, E; J Acquir Immune Defic Syndr 2002, V31(Suppl 2), PS43
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- (17) Torre, D; Lancet Infect Dis 2002, V2, P273 HCAPLUS

(18) Wang, H; Nature 2003, V421, P384 HCAPLUS

L20 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:513538 HCAPLUS
 DN 141:65099
 ED Entered STN: 25 Jun 2004
 TI Inhibition of inflammation using .alpha.7 nicotinic receptor-binding
 cholinergic agonists
 IN Tracey, Kevin J.; Wang, Hong
 PA North Shore-Long Island Jewish Research Institute, USA
 SO PCT Int. Appl., 75 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K031-444
 ICS A61K031-454; A61P001-00; A61P009-00; A61P011-00; A61P015-00;
 A61P029-00; A61P031-00; A61P033-00; A61P037-00; A61P043-00
 CC 1-7 (Pharmacology)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004052365	A2	20040624	WO 2003-US38708	20031205
	WO 2004052365	A3	20040923		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004204355	A1	20041014	US 2003-729427	20031205
PRAI	US 2002-431650P	P	20021206		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004052365	ICM	A61K031-444
	ICS	A61K031-454; A61P001-00; A61P009-00; A61P011-00; A61P015-00; A61P029-00; A61P031-00; A61P033-00; A61P037-00; A61P043-00
US 2004204355	ECLA	A61K031/00; A61K031/439; A61K031/444; A61K031/46

OS MARPAT 141:65099

AB Methods of inhibiting release of a proinflammatory cytokine from a macrophage are provided. The methods comprise treating the macrophage with a cholinergic agonist in an amount sufficient to decrease the amount of the proinflammatory cytokine that is released from the macrophage, wherein the cholinergic agonist is selective for an .alpha.7 nicotinic receptor. Methods for inhibiting an inflammatory cytokine cascade in a patient are also provided. The methods comprise treating the patient with a cholinergic agonist in an amount sufficient to inhibit the inflammatory cytokine cascade, wherein the cholinergic agonist is selective for an .alpha.7 nicotinic receptor. Methods for determining whether a compound is a cholinergic agonist reactive with an .alpha.7 nicotinic receptor are also provided. The methods comprise determining whether the compound inhibits release of a proinflammatory cytokine from a mammalian cell. Addnl., methods for determining whether a compound is a cholinergic antagonist reactive with an .alpha.7 nicotinic receptor are provided. These methods comprise determining whether the compound reduces the ability of a cholinergic agonist to inhibit the release of a proinflammatory cytokine from a mammalian cell.

Oligonucleotides or mimetics capable of inhibiting attenuation of lipopolysaccharide-induced TNF release from a mammalian macrophage upon exposure of the macrophage to a cholinergic agonist are also provided. The oligonucleotides or mimetics consist essentially of a sequence greater than 5 nucleotides long that is complementary to an mRNA of an α_7 receptor. Addnl., methods of inhibiting attenuation of TNF release from a mammalian macrophage upon exposure of the macrophage to a cholinergic agonist are provided. These methods comprise treating the macrophage with the above-described oligonucleotide or mimetic. Sepsis in mice was treated with 3-(2,4-dimethoxybenzylidene)anabaseine.

- ST inflammation inhibition α_7 nicotinic receptor cholinergic agonist;
proinflammatory cytokine macrophage inhibition α_7 nicotinic agonist;
inflammatory cytokine cascade inhibition α_7 nicotinic agonist; sepsis
treatment dimethoxybenzylidene anabaseine
- IT Kidney, disease
(Goodpasture's syndrome, treatment of; inflammation inhibition with
. α_7 nicotinic receptor-binding cholinergic agonists)
- IT High-mobility group proteins
RL: ADV (Adverse effect, including toxicity); BSU (Biological study,
unclassified); BIOL (Biological study)
(HMG1, as proinflammatory cytokine inhibited from release from
macrophage; inflammation inhibition with . α_7 nicotinic
receptor-binding cholinergic agonists)
- IT Kidney, disease
(IgA nephropathy, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Bone, disease
(Paget's, treatment of; inflammation inhibition with . α_7 nicotinic
receptor-binding cholinergic agonists)
- IT Arthritis
(Reiter's syndrome, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Intestine, disease
(Whipple's, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Digestive tract, disease
(achalasia, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Respiratory distress syndrome
(adult, treatment of; inflammation inhibition with . α_7 nicotinic
receptor-binding cholinergic agonists)
- IT Transplant rejection
(allotransplant, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Lung, disease
(alveolitis, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Ameba
(amebiasis, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
Spinal column, disease
(ankylosing spondylitis, treatment of; inflammation inhibition with
. α_7 nicotinic receptor-binding cholinergic agonists)
- IT Appendix, disease
Inflammation
(appendicitis, treatment of; inflammation inhibition with . α_7
nicotinic receptor-binding cholinergic agonists)
- IT Artery, disease
Inflammation
(arteritis, treatment of; inflammation inhibition with . α_7

- nicotinic receptor-binding cholinergic agonists)
- IT Disease, animal
 - Pain
 - (arthralgia, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Interleukin 18
 - Interleukin 1.beta.
 - Interleukin 6
 - Tumor necrosis factors
 - RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)
 - (as proinflammatory cytokine inhibited from release from macrophage; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Bronchi, disease
 - Inflammation
 - (bronchiolitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Bronchi, disease
 - Inflammation
 - (bronchitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Mycosis
 - (candidiasis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Ischemia
 - (cardiac, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Immune system
 - (cell of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Biliary tract, disease
 - Inflammation
 - (cholangitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Gallbladder, disease
 - Inflammation
 - (cholecystitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Lung, disease
 - (chronic obstructive, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
 - Intestine, disease
 - (colitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Infection
 - (dengue, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Joint, anatomical
 - (disease, arthralgia, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Urethra
 - (disease, urethritis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Immunity
 - (disorder, immune complex, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Bacteremia
 - (disseminated, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)

- IT Ulcer
 - (duodenal, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Intestine, disease
 - (duodenum, ulcer, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Heart, disease
 - Inflammation
 - (endocarditis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Granuloma
 - (eosinophilic, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Epididymis
 - (epididymitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
 - (epiglottitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Heart, disease
 - (failure, treatment of; inflammation inhibition with .alpha.7 nicotinic
receptor-binding cholinergic agonists)
- IT Inflammation
 - (fascia, treatment of; inflammation inhibition with .alpha.7 nicotinic
receptor-binding cholinergic agonists)
- IT Infection
 - (filariasis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT mRNA
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
(for .alpha.7 nicotinic receptor, oligonucleotides complementary to;
inflammation inhibition with .alpha.7 nicotinic receptor-binding
cholinergic agonists)
- IT Gene, animal
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
(for .alpha.7 nicotinic receptor; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Ulcer
 - (gastric, treatment of; inflammation inhibition with .alpha.7 nicotinic
receptor-binding cholinergic agonists)
- IT Transplant and Transplantation
 - (graft-vs.-host reaction, treatment of; inflammation inhibition with
.alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Granulomatous disease
 - (granulomatosis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Cyst, pathological
 - (hydatid, treatment of; inflammation inhibition with .alpha.7 nicotinic
receptor-binding cholinergic agonists)
- IT Brain, disease
 - (infarction, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Hepatitis B virus
 - Hepatitis C virus
 - Herpesviridae
 - Human herpesvirus
 - Human immunodeficiency virus
 - Respiratory syncytial virus
 - (infection with, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Allergy inhibitors

Anti-AIDS agents
 Anti-inflammatory agents
 Antiarthritics
 Antiasthmatics
 Antimalarials
 Antirheumatic agents
 Drug screening
 Human
 Inflammation
 Mammalia
 (inflammation inhibition with .alpha.7 nicotinic receptor-binding
 cholinergic agonists)
 IT Oligonucleotides
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
 THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (inhibiting attenuation of lipopolysaccharide-induced TNF release from
 macrophages exposed to cholinergic agonists; inflammation inhibition
 with .alpha.7 nicotinic receptor-binding cholinergic agonists)
 IT Macrophage
 (inhibition of proinflammatory cytokines release from; inflammation
 inhibition with .alpha.7 nicotinic receptor-binding cholinergic
 agonists)
 IT Reperfusion
 Spinal cord, disease
 (injury, treatment of; inflammation inhibition with .alpha.7 nicotinic
 receptor-binding cholinergic agonists)
 IT Heart, disease
 (ischemia, treatment of; inflammation inhibition with .alpha.7
 nicotinic receptor-binding cholinergic agonists)
 IT Animal cell
 (mammalian; inflammation inhibition with .alpha.7 nicotinic
 receptor-binding cholinergic agonists)
 IT Heart, disease
 Inflammation
 (myocarditis, treatment of; inflammation inhibition with .alpha.7
 nicotinic receptor-binding cholinergic agonists)
 IT Nerve, disease
 Pain
 (neuralgia, treatment of; inflammation inhibition with .alpha.7
 nicotinic receptor-binding cholinergic agonists)
 IT Inflammation
 Nerve, disease
 (neuritis, treatment of; inflammation inhibition with .alpha.7
 nicotinic receptor-binding cholinergic agonists)
 IT Inflammation
 Pancreas, disease
 (pancreatitis, treatment of; inflammation inhibition with .alpha.7
 nicotinic receptor-binding cholinergic agonists)
 IT Ulcer
 (peptic, treatment of; inflammation inhibition with .alpha.7 nicotinic
 receptor-binding cholinergic agonists)
 IT Artery, disease
 Inflammation
 (periarteritis nodosa, treatment of; inflammation inhibition with
 .alpha.7 nicotinic receptor-binding cholinergic agonists)
 IT Inflammation
 Pericardium
 (pericarditis, treatment of; inflammation inhibition with .alpha.7
 nicotinic receptor-binding cholinergic agonists)
 IT Inflammation
 Peritoneum, disease

- (peritonitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
Pharynx, disease
(pharyngitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Pleura, disease
(pleurisy, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
Lung, disease
(pneumonitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Lung, disease
(pneumoultramicroscopic silicovolcanoconiosis, treatment of;
inflammation inhibition with .alpha.7 nicotinic receptor-binding
cholinergic agonists)
- IT Cytokines
RL: ADV (Adverse effect, including toxicity); BSU (Biological study,
unclassified); BIOL (Biological study)
(proinflammatory, inhibition of cascade of; inflammation inhibition
with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Cytokines
RL: ADV (Adverse effect, including toxicity); BSU (Biological study,
unclassified); BIOL (Biological study)
(proinflammatory, inhibition of release of, from macrophages;
inflammation inhibition with .alpha.7 nicotinic receptor-binding
cholinergic agonists)
- IT Inflammation
Prostate gland, disease
(prostatitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
(pulmonary alveolitis, treatment of; inflammation inhibition with
.alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
(pulmonary, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Injury
(reperfusion, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
Nose, disease
(rhinitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Lipopolysaccharides
RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); BIOL (Biological study); USES (Uses)
(screening for agents inhibiting induction in mammalian cell of
proinflammatory cytokine cascade by; inflammation inhibition with
.alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Abortion
Shock (circulatory collapse)
(septic, treatment of; inflammation inhibition with .alpha.7 nicotinic
receptor-binding cholinergic agonists)
- IT Inflammation
Respiratory tract, disease
(sinusitis, treatment of; inflammation inhibition with .alpha.7
nicotinic receptor-binding cholinergic agonists)
- IT Injury
(spinal cord, treatment of; inflammation inhibition with .alpha.7

- nicotinic receptor-binding cholinergic agonists)
- IT Brain, disease
 - (stroke, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Arthritis
 - Synovial membrane, disease
 - (synovitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Lupus erythematosus
 - (systemic, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
 - Thyroid gland, disease
 - (thyroiditis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Antisense oligonucleotides
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (to .alpha.7 nicotinic receptor; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Allergy
 - Anaphylaxis
 - Arthritis
 - Asthma
 - Atherosclerosis
 - Behcet's syndrome
 - Burn
 - Cachexia
 - Celiac disease
 - Cystic fibrosis
 - Emphysema
 - Encephalitis
 - Fever and Hyperthermia
 - Gout
 - Hay fever
 - Hepatitis
 - Hodgkin's disease
 - Influenza
 - Ischemia
 - Malaria
 - Meningitis
 - Myasthenia gravis
 - Necrosis
 - Osteomyelitis
 - Paralysis
 - Periodontium, disease
 - Rheumatic fever
 - Rheumatoid arthritis
 - Sarcoidosis
 - Sepsis
 - Septicemia
 - (treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Digestive tract, disease
 - (ulcer, peptic, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Stomach, disease
 - (ulcer, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
 - (urethritis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)

- IT Eye, disease
Inflammation
(uveitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Inflammation
Vagina, disease
(vaginitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Nerve
(vagus, nicotinic receptor .alpha.7 in inhibition of TNF release in response to stimulation of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Blood vessel, disease
Inflammation
(vasculitis, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Thrombosis
(venous, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Infection
(viral, treatment of; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Nicotinic agonists
Nicotinic antagonists
(.alpha.7; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT Nicotinic receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.alpha.7; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT 50-36-2D, Cocaine, quaternary analogs 5937-29-1, Cocaine methiodide 154291-01-7D, isomers 156743-65-6 156743-78-1 156743-79-2 156743-85-0 178419-47-1 220099-94-5 248270-35-1D, isomers 248270-40-8 248270-41-9 373358-00-0 400855-55-2 400855-58-5 400855-62-1 708210-26-8D, isomers 708210-27-9
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as cholinergic agonist of .alpha.7 nicotinic receptor; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT 54-11-5, Nicotine
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT 708306-01-8
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence, inhibiting attenuation of LPS-induced TNF release from macrophage exposed to cholinergic agonist; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT 709881-00-5 709881-01-6 709881-02-7 709881-03-8 709881-04-9 709881-05-0 709881-06-1 709881-07-2 709881-08-3 709881-09-4 709881-10-7 709881-11-8 709881-12-9 709881-13-0 709881-14-1 709881-15-2 709881-16-3 709881-17-4 709881-18-5 709881-19-6
RL: PRP (Properties)
(unclaimed sequence; inhibition of inflammation using .alpha.7 nicotinic receptor-binding cholinergic agonists)
- IT 11032-79-4, .alpha.-Bungarotoxin 37209-28-2, Bungarotoxin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.alpha.7 nicotinic receptor antagonist; inflammation inhibition with .alpha.7 nicotinic receptor-binding cholinergic agonists)

L20 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2001:868225 HCAPLUS
 DN 136:625
 ED Entered STN: 30 Nov 2001
 TI Inhibition of inflammatory cytokine production by cholinergic agonists and
 vagus nerve stimulation
 IN Tracey, Kevin J.
 PA North Shore-Long Island Jewish Research Institute, USA
 SO PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K031-44
 CC 1-7 (Pharmacology)
 Section cross-reference(s): 15

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001089526	A1	20011129	WO 2001-US15708	20010516
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 2002016344	A1	20020207	US 2001-855446	20010515
	US 6610713	B2	20030826		
	CA 2408791	AA	20011129	CA 2001-2408791	20010516
	EP 1307196	A1	20030507	EP 2001-935542	20010516
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004510695	T2	20040408	JP 2001-585770	20010516
	US 2004038857	A1	20040226	US 2003-446625	20030528
	US 6838471	B2	20050104		
PRAI	US 2000-206364P	P	20000523		
	US 2001-855446	A	20010515		
	WO 2001-US15708	W	20010516		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001089526	ICM	A61K031-44
US 2002016344	ECLA	A61K031/44
JP 2004510695	FTERM	4C037/DA05; 4C050/AA02; 4C050/BB09; 4C050/CC16; 4C050/DD10; 4C050/EE01; 4C050/FF04; 4C050/GG03; 4C050/HH01; 4C054/AA05; 4C054/CC02; 4C054/DD01; 4C054/EE33; 4C054/FF01; 4C063/AA01; 4C063/BB01; 4C063/CC12; 4C063/DD03; 4C063/EE01; 4C072/AA01; 4C072/BB02; 4C072/CC02; 4C072/CC16; 4C072/DD05; 4C072/EE13; 4C072/FF05; 4C072/GG01; 4C072/HH02; 4C072/UU01; 4C084/AA19; 4C084/NA14; 4C084/ZB112; 4C084/ZB212; 4C086/AA01; 4C086/AA02; 4C086/BA03; 4C086/BC07; 4C086/BC16; 4C086/BC17; 4C086/CB22; 4C086/CB27; 4C086/GA08; 4C086/GA12; 4C086/MA01; 4C086/MA04; 4C086/NA14; 4C086/ZB11; 4C086/ZB21; 4C206/AA01; 4C206/AA02; 4C206/FA42; 4C206/HA22; 4C206/MA01; 4C206/MA04; 4C206/NA14; 4C206/ZB11; 4C206/ZB21

US 2004038857 ECLA A61K031/44

- AB Methods are disclosed for inhibition of the proinflammatory cytokine release in a cell. The method comprises the cell treatment with cholinergic agonist. The method is useful in patients at risk for, or suffering from, a condition mediated by an inflammatory cytokine cascade, for example endotoxic shock. The cholinergic agonist treatment can be effected by stimulation of an efferent vagus nerve fiber, or the entire vagus nerve.
- ST cholinergic agonist inflammatory cytokine inhibitor vagus nerve; endotoxic shock antiinflammatory cholinergic agonist vagus nerve
- IT Hepatitis
(B; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Hepatitis
(C; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
(Crohn's disease; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Intestine, disease
(Crohn's; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GADPH; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Kidney, disease
(Goodpasture's syndrome; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Nervous system, disease
(Guillain-Barre syndrome; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT High-mobility group proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HMG1; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Kidney, disease
(IgA nephropathy; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Bone, disease
(Paget's; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Gene, animal
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TNF; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Esophagus, disease
(achalasia; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Respiratory distress syndrome
(adult; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Allergy
(allergic dermatitis, wheals; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Dermatitis
(allergic, wheals; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Transplant rejection
(allotransplant; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

- IT Lung, disease
(alveolitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Ameba
Entamoeba histolytica
(amebiasis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Spinal column, disease
(ankylosing spondylitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Artery, disease
Inflammation
(arteritis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Disease, animal
Pain
(arthralgia; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Bronchi, disease
Inflammation
(bronchiolitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Bronchi, disease
Inflammation
(bronchitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Mycosis
(candidiasis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Ischemia
(cardiac; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Biliary tract, disease
Inflammation
(cholangitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Gallbladder, disease
Inflammation
(cholecystitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Infection
(dengue; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Joint, anatomical
(disease, arthralgia; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Muscle, disease
(disease, fasciitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Urethra
(disease, urethritis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Immunity
(disorder, immune complex disease; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Bacteremia
(disseminated; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Intestine, disease

- (diverticulitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Ulcer
(duodenal; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Intestine, disease
(duodenum, ulcer; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Nerve
(efferent, vagus; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Heart, disease
Inflammation
(endocarditis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Toxins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(endotoxins; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Intestine, disease
(enteritis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Granuloma
(eosinophilic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Epididymis
(epididimitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Heart, disease
(failure; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Muscle
(fiber, disease, fasciitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Infection
(filariasis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Ulcer
(gastric; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Transplant and Transplantation
(host-vs.-graft reaction; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Cyst, pathological
(hydatid; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Brain, disease
(infarction; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Respiratory tract, disease
(infection, caused by respiratory syncytial virus; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Respiratory tract, disease
(infection, epiglottitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Intestine, disease
(infection, of appendix, appendicitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Respiratory syncytial virus

(infection; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

IT AIDS (disease)

Allergy
Alzheimer's disease
Anaphylaxis
Anti-inflammatory agents
Arthritis
Asthma
Atherosclerosis
Behcet's syndrome
Blood pressure
Blood serum
Burn
Cachexia
Celiac disease
Cholinergic agonists
Cystic fibrosis
Dermatitis
Dermatomyositis
Emphysema
Encephalitis
Endotoxemia
Fever and Hyperthermia
Ganglion
Gout
Granulomatous disease
Hay fever
Hepatitis
Herpesviridae
Hodgkin's disease
Human herpesvirus
 Human immunodeficiency virus
 Human immunodeficiency virus 1
Hypotension
Influenza
Liver
Macrophage
Malaria
Meningitis
Mononuclear cell (leukocyte)
Multiple sclerosis
Myasthenia gravis
Osteomyelitis
Paralysis
Periodontium, disease
Rheumatic fever
Rheumatoid arthritis
Sarcoidosis
Sepsis
Septicemia
Sunburn
Urticaria
Wart

(inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

IT Corticosteroids, biological studies

Cytokines
Interleukin 1
Interleukin 18
Interleukin 1.beta.

- Interleukin 6
- Lipopolysaccharides
- Nicotinic receptors
- Tumor necrosis factors
- RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Reperfusion
- Spinal cord, disease
(injury; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Diabetes mellitus
(insulin-dependent; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Infection
(intestinal, of appendix, appendicitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Heart, disease
(ischemia; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Occupational diseases
(lung, pneumoultramicroscopic silicovolcanoconiosis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Cholinergic receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(macrophage; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Intestine, disease
(malabsorption, Whipple's disease; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Heart, disease
- Inflammation
(myocarditis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Nerve, disease
- Pain
(neuralgia; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
- Nerve, disease
(neuritis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Nerve
(neuron, postganglionic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Lung, disease
(occupational, pneumoultramicroscopic silicovolcanoconiosis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Ischemia
- Necrosis
(organ; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
- Pancreas, disease
(pancreatitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Ulcer
(peptic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

- IT Artery, disease
 - Inflammation
 - (periarteritis nodosa; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Pericardium
 - (pericarditis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Organ, animal
 - (peripheral; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Peritoneum, disease
 - (peritonitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Pharynx, disease
 - (pharyngitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Pleura, disease
 - (pleurisy; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Lung, disease
 - (pneumonitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Pneumoconiosis
 - (pneumoultramicroscopic silicovolcanoconiosis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Cytokines
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (proinflammatory; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Prostate gland, disease
 - (prostatitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Intestine, disease
 - (pseudomembranous enterocolitis, ulcerative acute and ischemic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - (pulmonary alveolitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - (pulmonary; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Arthritis
 - (reactive, Reiter's syndrome; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Injury
 - (reperfusion; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
 - Nose, disease
 - (rhinitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Abortion
 - Shock (circulatory collapse)

- (septic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Respiratory tract, disease
(sinusitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Injury
(spinal cord; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Electric current
(stimulation of nerve vagus by; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Brain, disease
(stroke; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Arthritis
Synovial membrane, disease
(synovitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Lupus erythematosus
(systemic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Vein, disease
(thrombophlebitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Thyroid gland, disease
(thyroiditis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Liver
(toxicity; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Digestive tract, disease
(ulcer, peptic; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Stomach, disease
(ulcer; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
(urethritis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Eye, disease
Inflammation
(uveitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Inflammation
Vagina, disease
(vaginitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Nerve
(vagus; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Nerve
(vagus, sensory, fibers; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Blood vessel, disease
Inflammation
(vasculitis; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)
- IT Infection

(viral, herpes; inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

IT 50-22-6, Corticosterone 11032-79-4, .alpha.-Bungarotoxin
123938-89-6, .alpha.-Conotoxin

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

IT 51-55-8, Atropine, biological studies 51-83-2, Carbachol 51-84-3,
Acetylcholine, biological studies 60-31-1, Acetylcholine chloride
63-75-2, Arecoline 357-70-0, Galantamine 6363-82-2, Muscarine
14769-73-4, Levamisole 107233-08-9, Cevimeline

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(inhibition of inflammatory cytokine production by cholinergic agonists and vagus nerve stimulation)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Collins; US 6096728 A 2000 HCAPLUS
- (2) Dinh; US 5733255 A 1998
- (3) Iino; US 5709853 A 1998 HCAPLUS
- (4) Kelleher; US 5567724 A 1996 HCAPLUS
- (5) Smith; US 5604231 A 1997 HCAPLUS

L20 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:842363 HCAPLUS

DN 134:27293

ED Entered STN: 01 Dec 2000

TI Method of determining the three-dimensional shape of a macromolecule using chemical crosslinking and specific cleavage and fragment analysis

IN Gibson, Bradford W.; Kuntz, Irwin D.; Tang, Ning; Dollinger, Gavin;
Oshiro, Connie M.; Hempel, Judith C.; Taylor, Eric

PA Regents of the University of California, USA

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM G01N033-00

CC 9-16 (Biochemical Methods)

Section cross-reference(s): 6, 7

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000072004	A2	20001130	WO 2000-US14667	20000526
	WO 2000072004	C2	20020829		
	WO 2000072004	A3	20021128		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP	1277050	A2	20030122	EP 2000-937870	20000526
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY			
	JP 2003528288	T2	20030924	JP 2000-620343	20000526
PRAI	US 1999-135891P	P	19990526		
	WO 2000-US14667	W	20000526		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000072004	ICM	G01N033-00
AB	<p>The present invention provides a fast and efficient method for determining the three-dimensional conformation of a protein. The steps of the method of the invention include: (1) formation of phys. distance constraints, e.g., forming intramol. chemical crosslinks of known size between residues of a protein; (2) enriching the number of the mols. that have intramol. chemical crosslinks in the reaction pool, e.g., using size separation to remove proteins with intermol. bonds; (3) exposing the enriched reaction pool to a protease that cuts the protein at specific sites to produce peptide fragments; (4) measuring the size of the peptide fragments to determine linkage sites with a certain spatial relationship in the protein; and (5) interpreting the data produced to determine spatial geometry and protein structure based on the deduced spatial relationship of the linkage sites. The information is preferably analyzed with aid from a computer system, which can be used to generate and/or analyze distance constraints between amino acids. HIV-1 integrase and Haemophilus CMP-NeuAc synthetase (CNase) were each crosslinked with BS3 followed by size exclusion chromatog., proteolysis, and LC-MS. One crosslinking reaction generated 5 interdomain crosslinks for the integrase and 6 for the CNase. Using these limited Lys-Lys distance constraints in conjunction with threading methods, a unique arrangement for the three integrase domains was calculated using distance geometry and the structures of the 3 domains. A unique fold family in the database was not identified for the CNase although .beta.-barrel proteins scored consistently high.</p>	
ST	<p>shape macromol detn crosslinking cleavage fragment analysis; computer protein tertiary structure detn; integrase tertiary structure detn; CMP sialic acid synthetase tertiary structure detn; bissulfosuccinimidyl suberate crosslinking protein structure detn</p>	
IT	<p>Cyclophilins RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent) (A; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Reversed phase HPLC (C4 and C8 and C18 separation columns; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Conformation (DNA; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Time-of-flight mass spectrometry (MALDI- or ESI-; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Polyacrylamide gel electrophoresis (SDS; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Electrospray ionization mass spectrometry (TOF; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Crosslinking agents (bifunctional; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>HPLC (capillary; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	
IT	<p>Amines, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (crosslinking agent specific for; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)</p>	

- IT Algorithm
 - Apparatus
 - Chromatography
 - Computer program
 - Computers
 - Conformation
 - Crosslinking
 - Crosslinking agents
 - Databases
 - Edman degradation
 - Mass spectrometers
 - Mass spectrometry
 - Mathematical methods
 - Molecular structure
 - Protein folding
 - Protein motifs
 - Protein sequence analysis
 - Reversed phase liquid chromatography
 - Simulation and Modeling, physicochemical
 - Size-exclusion chromatography
 - (determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Macromolecular compounds
 - RL: PRP (Properties)
 - (determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT DNA
 - Nucleic acids
 - Proteins, general, reactions
 - RNA
 - RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
 - (determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Mass spectrometers
 - (electrospray-ionization; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Peptides, biological studies
 - RL: BSU (Biological study, unclassified); FMU (Formation, unclassified); PRP (Properties); BIOL (Biological study); FORM (Formation, nonpreparative)
 - (formation and anal. of; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Protein sequences
 - (homol.; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Human immunodeficiency virus 1
 - (integrase of; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Time-of-flight mass spectrometry
 - (laser-induced photodesorption; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Laser ionization mass spectrometry
 - (photodesorption, matrix-assisted; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Mass spectrometers
 - (photoionization, laser-induced; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)
- IT Laser desorption mass spectrometry

(photoionization, matrix-assisted; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT Conformation

Tertiary structure

(protein; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT Laser desorption mass spectrometry

(time-of-flight; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT Parvalbumins

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)

(.alpha.-; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT 9067-82-7

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)

(Haemophilus; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT 9001-92-7, Protease 9002-07-7, Trypsin

RL: CAT (Catalyst use); USES (Uses)

(determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT 9087-70-1, BPTI 11032-79-4, .alpha.-Bungarotoxin 106096-93-9, FGF 2

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)

(determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT 82436-77-9, Bis(sulfosuccinimidyl)suberate 118674-04-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT 52350-85-3, Integrase

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)

(of HIV-1; determining three-dimensional shape of macromols. using chemical crosslinking and specific cleavage and fragment anal.)

IT 99400-52-9 310428-35-4 310428-38-7 310428-40-1 310428-42-3

310428-45-6 310470-94-1 310470-95-2

RL: PRP (Properties)

(unclaimed sequence; method of determining the three-dimensional shape of a macromol. using chemical crosslinking and specific cleavage and fragment anal.)

L20 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:700344 HCAPLUS

DN 128:21731

ED Entered STN: 07 Nov 1997

TI Molecular mimicry between the rabies virus glycoprotein and human immunodeficiency virus-1 GP120: cross-reacting antibodies induced by rabies vaccination

AU Bracci, Luisa; Ballas, Samir K.; Spreafico, Adriano; Neri, Paolo

CS Department Molecular Biology, University Siena, Siena, Italy

SO Blood (1997), 90(9), 3623-3628

CODEN: BLOOAW; ISSN: 0006-4971

PB Saunders

DT Journal

LA English

CC 15-8 (Immunochemistry)

AB The 160-170 sequence of human immunodeficiency virus (HIV)-1 gp120 mimics a nicotinic receptor-binding motif of rabies virus glycoprotein and snake neurotoxins. This sequence has been proposed to be involved in the binding of HIV-1 gp120 to the acetylcholine binding sites of nicotinic

receptors. By using biomol. interaction anal. (BIA) technol. the authors have found that HIV-1 gp120 can bind to detergent-extracted nicotinic receptor from fetal calf muscle. The binding is inhibited by nicotine and by a synthetic peptide reproducing the gp120 160-170 sequence. The mol. mimicry between gp120 and rabies virus glycoprotein is confirmed by cross-reacting antibodies. The authors have found that vaccination against rabies can induce the production of anti-HIV-1 gp120 antibodies in humans. The cross-reacting antibodies are directed to the gp120 sequence involved in the mimicry with the rabies virus glycoprotein. The cross-reactivity between the rabies virus and HIV-1 has important implications in transfusion medicine. Moreover, the presence of cross-reacting antibodies between the nicotinic receptor binding site of rabies virus glycoprotein and a fragment of HIV-1 gp120 strengthens the hypothesis about the possible role of nicotinic receptors as potential receptors for HIV-1 in the central nervous system.

ST HIV gp120 protein rabies virus glycoprotein

IT Nervous system

(central; mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to nicotinic receptor role as HIV receptor in central nervous system)

IT Antibodies

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(crossreacting; mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to cross-reacting antibody induction by rabies vaccination)

IT Envelope proteins

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(gp120env; mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to cross-reacting antibody induction by rabies vaccination)

IT Human immunodeficiency virus 1

Rabies virus

(mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to cross-reacting antibody induction by rabies vaccination)

IT Glycoproteins, general, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to cross-reacting antibody induction by rabies vaccination)

IT Blood transfusion

(mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to cross-reacting antibody induction by rabies vaccination in relation to)

IT Nicotinic receptors

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to nicotinic receptor role as HIV receptor in central nervous system)

IT Protein motifs

(nicotine receptor-binding; mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120 in relation to cross-reacting antibody induction by rabies vaccination)

IT 199387-03-6

RL: PRP (Properties)

(mol. mimicry between human HIV-1 gp120 and snake neurotoxins)

IT 199387-01-4 199387-02-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120
in relation to cross-reacting antibody induction by rabies vaccination)

IT 199387-04-7

RL: PRP (Properties)

(mol. mimicry between rabies virus glycoprotein and human HIV-1 gp120
in relation to nicotinic receptor role as HIV receptor in central
nervous system)

L20 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1990:114028 HCAPLUS

DN 112:114028

ED Entered STN: 31 Mar 1990

TI Receptor fragments and derivatives and their use as molecular decoyants
for toxins

IN Gershoni, Jonathan M.

PA Israel

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K037-02

ICS C07K013-00; C07K007-10

CC 4-5 (Toxicology)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8901779	A1	19890309	WO 1988-US2991	19880830
	W: AU, DK, FI, JP, NO, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	IL 83687	A1	19950330	IL 1987-83687	19870830
	AU 8823839	A1	19890331	AU 1988-23839	19880830
	EP 329778	A1	19890830	EP 1988-908569	19880830
	EP 329778	B1	19950531		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 02502538	T2	19900816	JP 1988-507516	19880830
	JP 2791074	B2	19980827		
	CA 1336489	A1	19950801	CA 1988-576111	19880830
	FI 100169	B1	19971015	FI 1989-2005	19890427
	NO 8901787	A	19890606	NO 1989-1787	19890428
	DK 8902119	A	19890628	DK 1989-2119	19890501
	DK 175596	B1	20041213		
	US 5770572	A	19980623	US 1989-410778	19890630
PRAI	IL 1987-83687	A	19870830		
	IL 1987-687	A	19870830		
	WO 1988-US2991	A	19880830		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 8901779	ICM	A61K037-02
	ICS	C07K013-00; C07K007-10
US 5770572	ECLA	A61K047/48T2C12P; C07K007/08A; C07K014/705; C07K014/705B14

AB Mimics of endogenous receptors are used to protect humans or other animals from the effects of exogenous substances (e.g. curarimimetic neurotoxin, snake venom toxin, rabies virus, human immunodeficiency virus) which act only after binding to the endogenous receptor. The mimic may be a fraction of the endogenous receptor which retains the essential elements of the binding site, or a synthetic or biosynthetic derivative thereof produced e.g. by genetic engineering techniques. Thus, synthetic oligonucleotides coding for amino acids 184-200 of the .alpha.-subunit of the acetylcholine receptor of *Torpedo californica* were prepared using

bacterially preferred codons. The oligonucleotides were ligated into expression vector pATH2 and used to transform *Escherichia coli*. The transformed bacteria produced an efficient toxin-binding 36,000-dalton fusion protein designated R4137. R4137 competed successfully with acetylcholine receptors bound to a Con A column for a limiting pool of 125I-labeled bungarotoxin. R4137 injected i.p. protected mice from an LD80 of d-tubocurarine or .alpha.-cobrotoxin injected s.c. 5 min later.

- ST receptor mimic toxin antidote; acetylcholine receptor peptide bungarotoxin antidote
- IT Toxins
 - RL: BIOL (Biological study)
 - (antidotes for, receptor mimics as)
- IT Peptides, biological studies
 - RL: BIOL (Biological study)
 - (as receptor mimics)
- IT Torpedo californica
 - (cholinergic receptor peptides of, proteins containing, as neurotoxin antidotes)
- IT Receptors
 - RL: BIOL (Biological study)
 - (mimics of, as toxin antidotes)
- IT Antivenoms
 - Virucides and Virustats
 - (receptor mimics as)
- IT Snake
 - (toxins of venom of, antidotes for, receptor mimics as)
- IT Receptors
 - RL: BIOL (Biological study)
 - (cholinergic, mimics of, as toxin antidotes)
- IT Virus, animal
 - (human immunodeficiency, inhibitors of, receptor mimics as)
- IT Toxins
 - RL: BIOL (Biological study)
 - (neuro-, antidotes for, receptor mimics as)
- IT Receptors
 - RL: BIOL (Biological study)
 - (nicotinic, mimics of, as toxin antidotes)
- IT Virus, animal
 - (rabies, inhibitors of, receptor mimics as)
- IT 57-94-3 156-74-1, Decamethonium 11032-79-4,
 - .alpha.-Bungarotoxin 12584-83-7, Cobrotoxin 69344-74-7,
 - .alpha.-Cobrotoxin (*Naja naja siamensis*)
 - RL: BIOL (Biological study)
 - (antidotes for, cholinergic receptor mimics as)
- IT 116123-44-5
 - RL: BIOL (Biological study)
 - (of cholinergic receptor, of Torpedo californica, proteins containing, as neurotoxin antidotes)

=> b reg

FILE 'REGISTRY' ENTERED AT 10:08:09 ON 22 MAR 2005
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1
 DICTIONARY FILE UPDATES: 20 MAR 2005 HIGHEST RN 845957-95-1

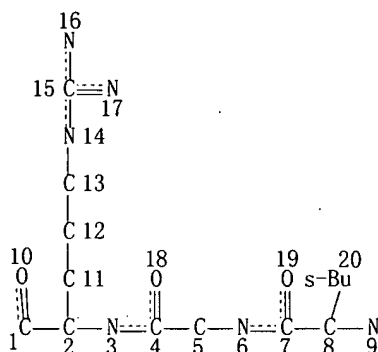
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que sta l25
 L23 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 1
 CONNECT IS M1 RC AT 9
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

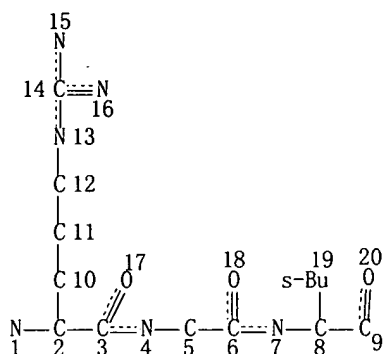
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L25 1088 SEA FILE=REGISTRY CSS FUL L23

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 SEARCH TIME: 00.00.09

1088 ANSWERS

=> d que sta l28
 L26 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 1
 CONNECT IS M1 RC AT 9
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L28 1000 SEA FILE=REGISTRY CSS FUL L26

100.0% PROCESSED 366298 ITERATIONS

1000 ANSWERS

SEARCH TIME: 00.00.08

=> d sqide l35 tot

L35 ANSWER 1 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 845831-29-0 REGISTRY

CN L-Arginine, L-arginyl-L-cysteinyl-L-isoleucylglycyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 5

SEQ 1 RCIGR

MF C23 H45 N11 O6 S

SR CA

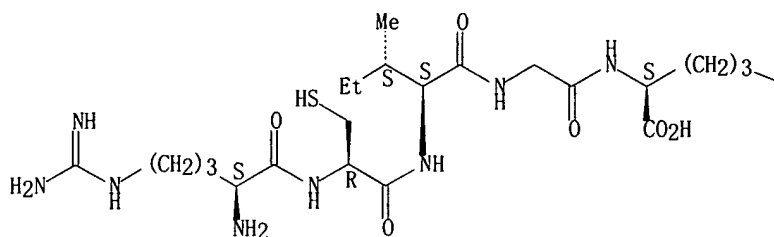
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DT.CA CAplus document type: Patent

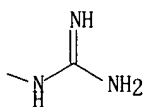
RL.P Roles from patents: BIOL (Biological study); PRP (Properties)

Absolute stereochemistry.

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PAGE 1-B



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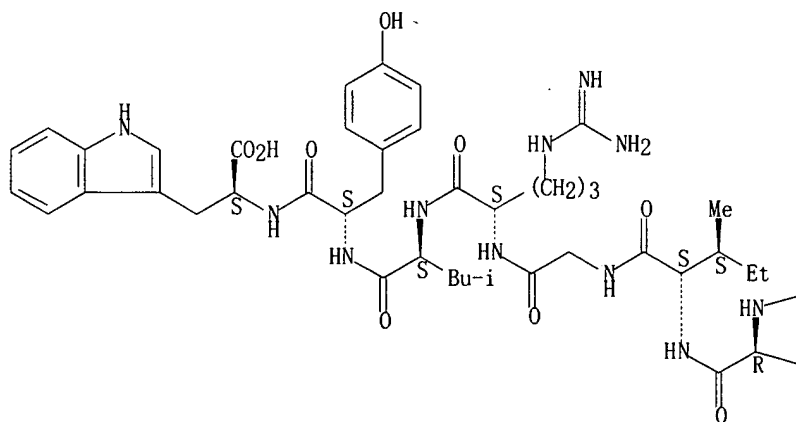
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 2 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 845831-19-8 REGISTRY
 CN L-Tryptophan, L-arginyl-L-cysteinyl-L-isoleucylglycyl-L-arginyl-L-leucyl-L-tyrosyl- (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 8

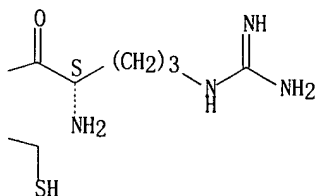
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 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PRP (Properties)

Absolute stereochemistry.

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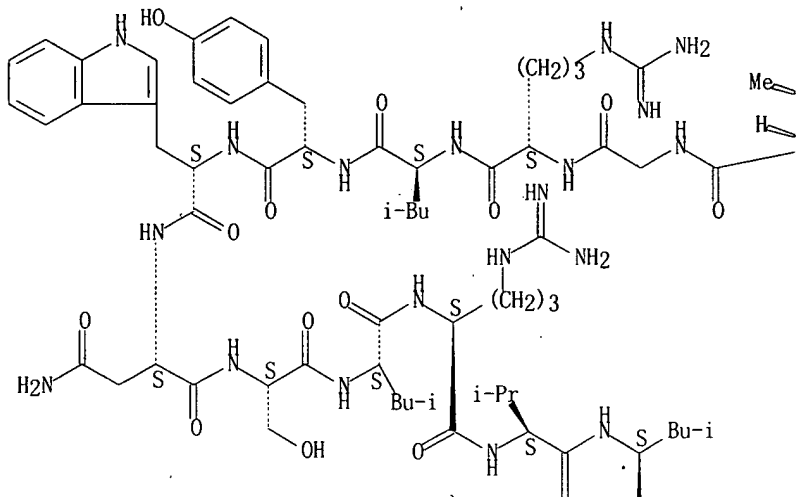
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 3 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN
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 arginyl-L-asparaginyl-L-seryl-L-seryl-L-arginyl-L-cysteinyl-L-
 isoleucylglycyl-L-arginyl-L-leucyl-L-tyrosyl-L-tryptophyl-L-asparaginyl-L-
 seryl-L-leucyl-L-arginyl-L-valyl-L-leucyl-L-. alpha.-aspartyl-L-arginyl-L-
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 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 28

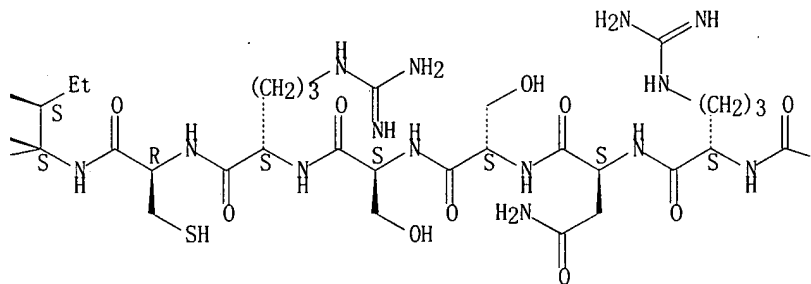
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 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PRP (Properties)

Absolute stereochemistry.

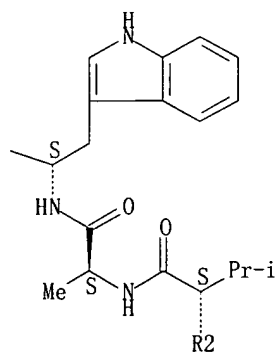
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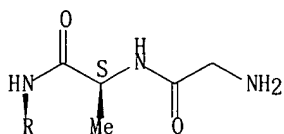
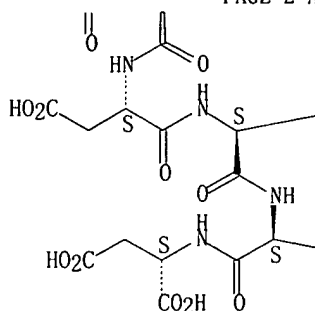
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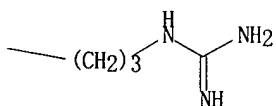
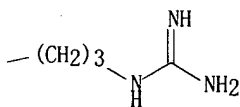
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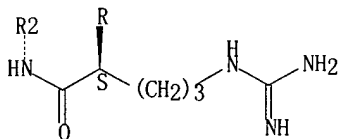
PAGE 2-A



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PAGE 3-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 4 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 831182-95-7 REGISTRY

CN L-Lysine, L-valyl-L-cysteinyl-L-arginylglycyl-L-isoleucyl-L-tryptophyl-L-glutamyl-L-cysteinyl-L-leucyl-L-seryl-L-prolyl-L-glutamyl-L-lysyl-L-arginyl-L-.alpha.-glutamyl-L-lysyl-L-.alpha.-aspartyl-L-arginyl-L-threonyl-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 295: PN: US20050019841 PAGE: 96 unclaimed sequence

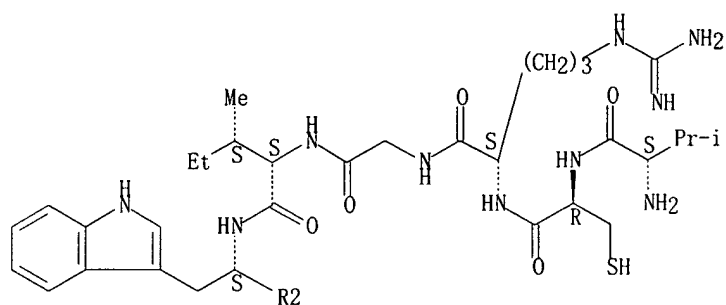
Search done by Noble Jarrell

FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 20

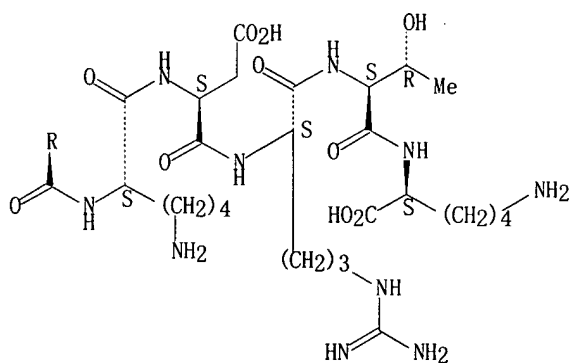
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MF C103 H175 N35 O29 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: PRP (Properties)

Absolute stereochemistry.

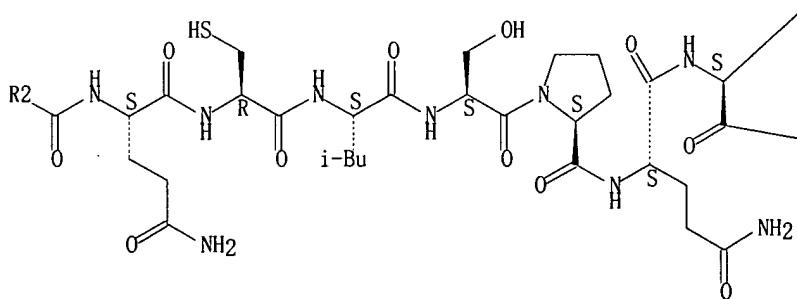
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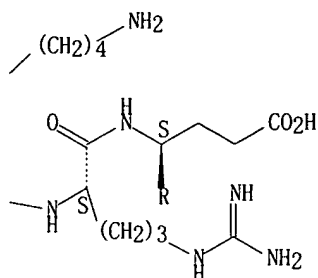
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PAGE 3-A



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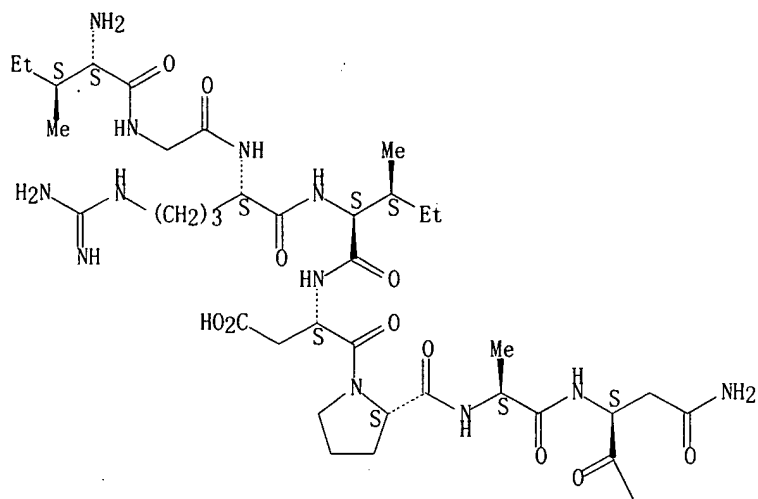
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 5 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN
RN 827301-76-8 REGISTRY
CN L-Lysine, L-isoleucylglycyl-L-arginyl-L-isoleucyl-L-.alpha.-aspartyl-L-prolyl-L-alanyl-L-asparaginyll-L-valyl-L-asparaginyll-L-threonyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
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CN 40: PN: WO2005005638 SEQID: 36 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 12

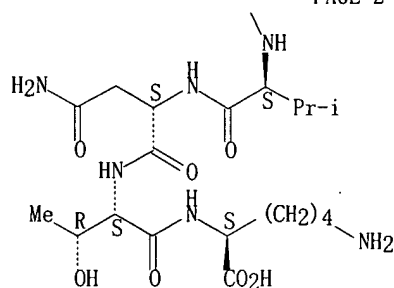
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MF C55 H96 N18 O18
SR CA
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DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

PAGE 1-A



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2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 6 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 827301-32-6 REGISTRY

CN L-Alanine, L-arginyl-L-alanyl-L-seryl-L-arginylglycyl-L-isoleucyl-L-seryl-L-arginyl-L-tryptophyl-L-leucyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 354: PN: US20050009136 SEQID: 280 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

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MF C55 H93 N21 O14

SR CA

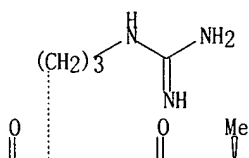
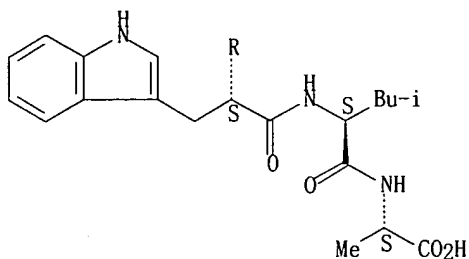
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DT.CA Caplus document type: Patent

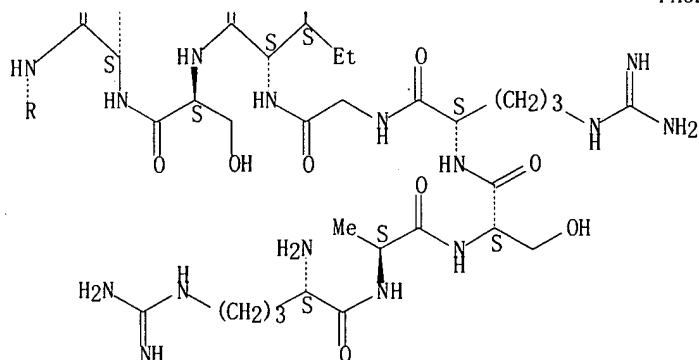
RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

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PAGE 2-A



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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 7 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 827300-97-0 REGISTRY

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OTHER NAMES:

CN 290: PN: US20050009136 SEQID: 216 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

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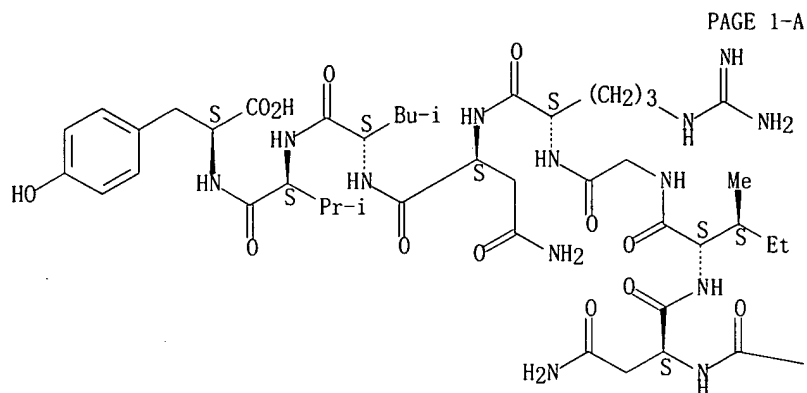
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SR CA

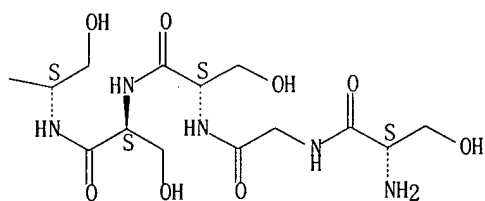
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LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA CAPLUS document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES
 (Uses)

Absolute stereochemistry.



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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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L35 ANSWER 8 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 827300-62-9 REGISTRY

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 arginyl-L-tyrosyl-L-phenylalanyl-L-.alpha.-aspartyl-L-tryptophyl-L-
 phenylalanyl-L-leucylglycyl-L-asparaginy-L-tyrosyl-L-tyrosyl-L-tyrosyl-L-
 tyrosylglycyl-L-methionyl-L-.alpha.-aspartyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 215: PN: US20050009136 SEQID: 141 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

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SQL 21

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MF C130 H166 N26 O36 S

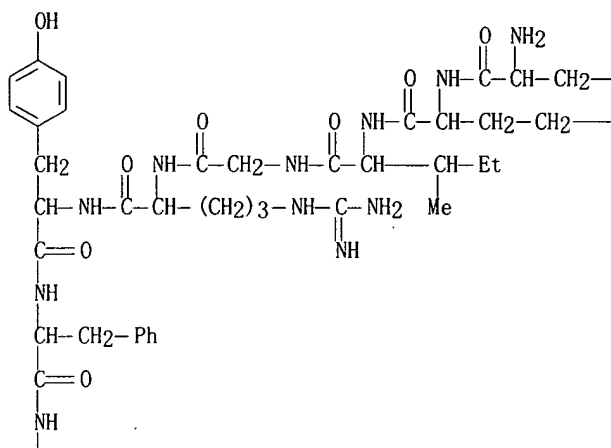
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

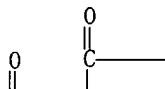
DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES (Uses)

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—CH₂-CO₂H—CO₂H

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PAGE 2-C

—CH₂—CO₂H—CH₂—SMe

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 9 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 817168-03-9 REGISTRY

CN L-Alanine, L-cysteinylglycyl-L-seryl-L-.alpha.-glutamyl-L-.alpha.-glutamyl-L-.alpha.-aspartyl-L-alanyl-L-methionyl-L-.alpha.-glutamyl-L-valyl-L-leucyl-L-glutaminyl-L-.alpha.-glutamyl-L-threonyl-L-leucyl-L-phenylalanyl-L-seryl-L-alanyl-L-phenylalanyl-L-arginylglycyl-L-isoleucyl-L-histidyl-L-alanyl-L-phenylalanyl-L-arginylglycyl-L-.alpha.-aspartyl-L-alanyl- (9CI)
(CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

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MF C140 H213 N39 O47 S2

SR CA

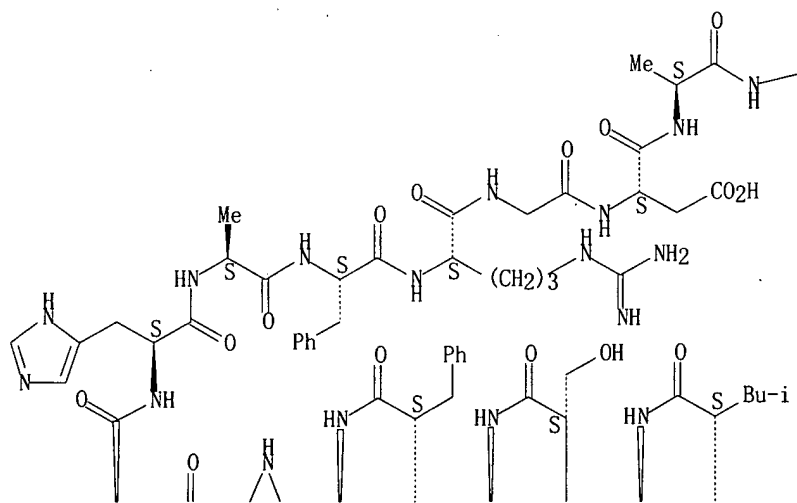
LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

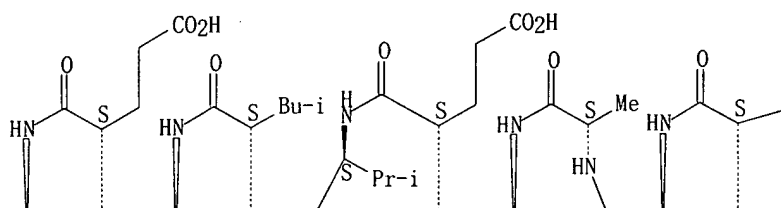
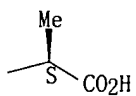
RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES
(Uses)

Absolute stereochemistry.

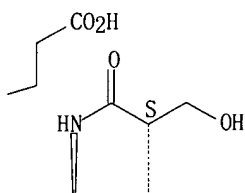
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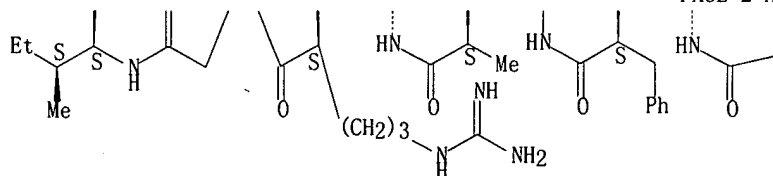
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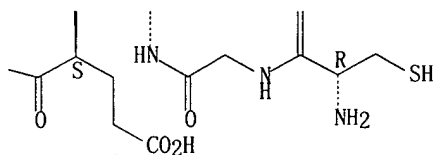
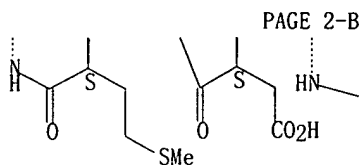
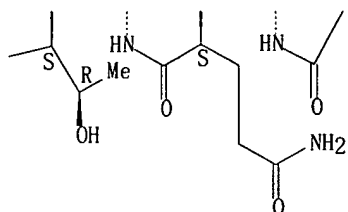


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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 10 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 812648-21-8 REGISTRY

CN L-Proline, L-leucyl-L-leucyl-L-phenylalanyl-L-leucyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-cysteinyl-L-valyl-L-alanyl-L-isoleucylglycyl-L-arginyl-L-valyl-L-.alpha.-aspartyl-L-valyl-L-prolyl-L-alanyl-L-seryl-L-leucyl-L-alanyl-L-leucyl-L-seryl-L-leucylglycyl-L-.alpha.-aspartyl-L-cysteinyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-seryl-L-seryl-L-threonyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3879: PN: US20040214272 SEQID: 358901 claimed protein

CN Protein (Zea mays clone MRT4577_90485C.1.pep fragment)

FS PROTEIN SEQUENCE; STEREOSEARCH

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MF C147 H243 N37 O48 S2

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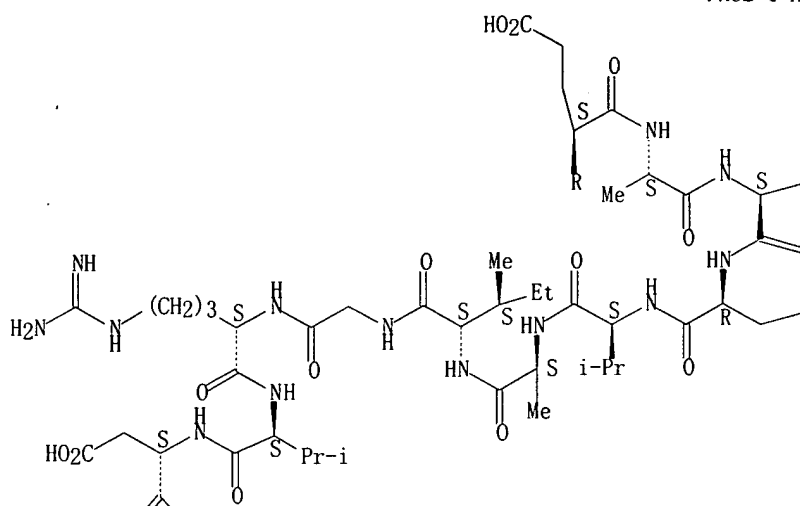
LC STN Files: CA, CAPLUS

DT.CA Cplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

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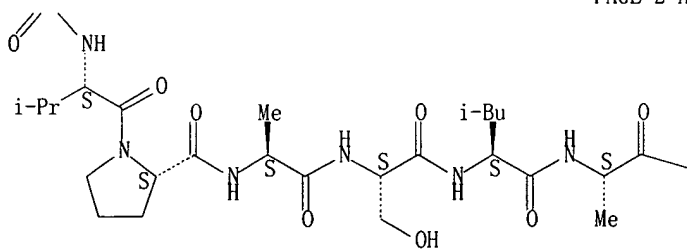
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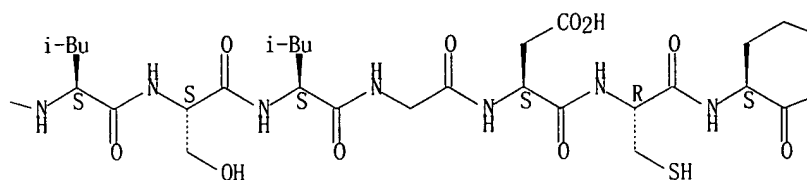
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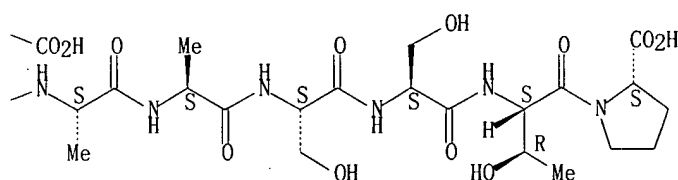
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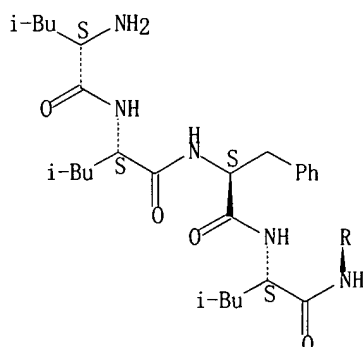
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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L35 ANSWER 11 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811795-85-4 REGISTRY

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 alanyl-L-isoleucyl-L-prolyl-L-. alpha. -glutamyl-L-cysteinyl-L-tryptophyl-L-
 valyl-L-threonyl-L-valyl-L-isoleucyl-L-histidyl-L-valyl-L-alanyl-L-seryl-L-
 asparaginy-L-leucyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4555: PN: US20040214272 SEQID: 344582 claimed protein

CN Protein (Zea mays clone MRT4577_77423C. 1. pep fragment)

Search done by Noble Jarrell

FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 29

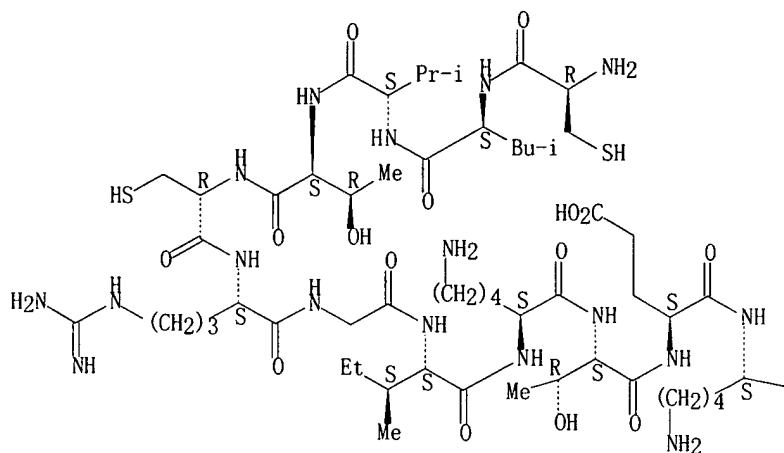
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SR      CA
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DT.CA   Caplus document type:  Patent
RL.P    Roles from patents:  BIOL (Biological study); PRP (Properties); USES
        (Uses)

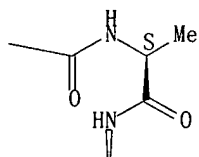
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Absolute stereochemistry.

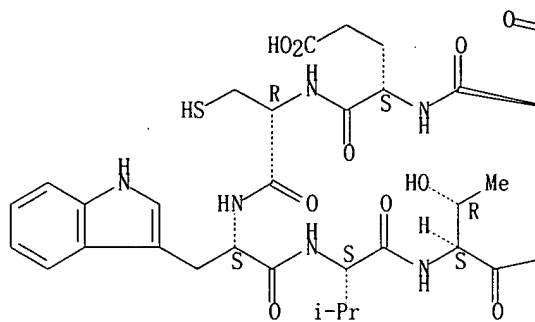
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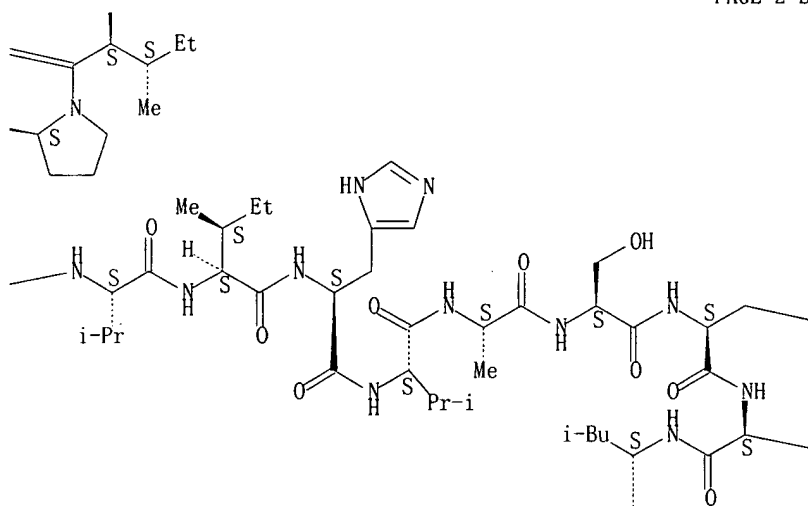
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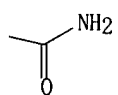
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CO₂H

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 12 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 811795-70-7 REGISTRY

CN L-Leucine, L-threonyl-L-isoleucylglycyl-L-arginyl-L-seryl-L-tyrosyl-L-alanyl-L-tryptophyl-L-leucyl-L-glutamyl-L-seryl-L- α -aspartyl-L-cysteinyl-L-seryl-L-asparaginyl-L-arginyl-L-leucyl-L-leucyl-L-leucyl-L-asparaginyl-L-seryl-L-alanyl-L-arginyl-L-phenylalanyl-L-seryl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2011: PN: US20040214272 SEQID: 342024 claimed protein

CN Protein (Zea mays clone MRT4577_75092C.1.pep fragment)

FS PROTEIN SEQUENCE; STEREOSEARCH

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MF C130 H207 N39 O39 S

SR CA

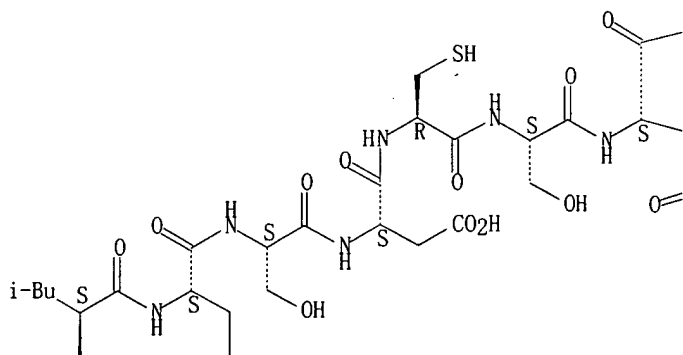
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DT.CA Caplus document type: Patent

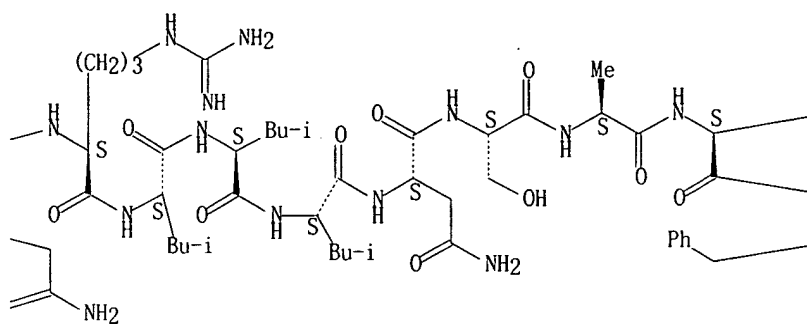
RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES (Uses)

Absolute stereochemistry.

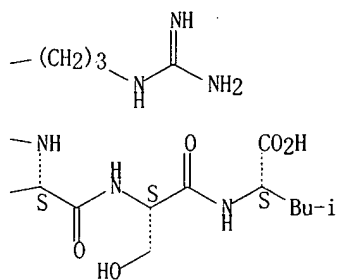
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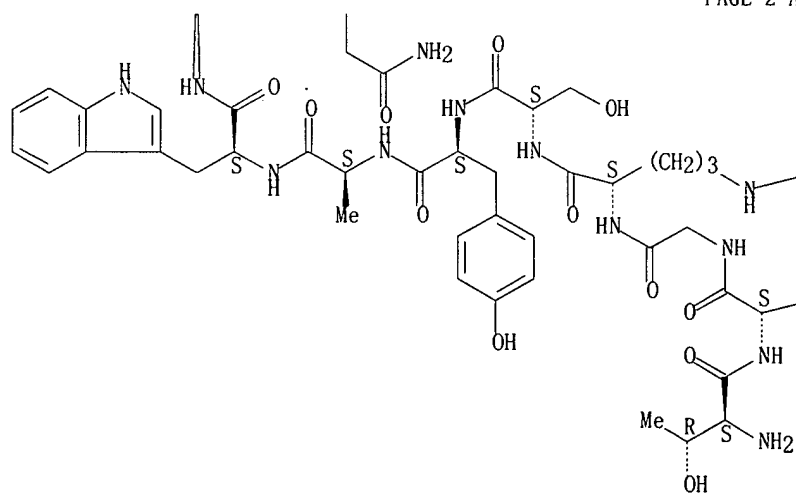
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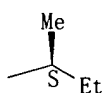
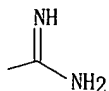
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 13 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 809276-37-7 REGISTRY

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L-.alpha.-glutamyl-L-alanyl-L-leucyl-L-cysteinyl-L-phenylalanyl-L-threonyl-
L-arginyl-L-threonyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1942: PN: US20040214272 SEQID: 311944 claimed protein

CN Protein (Zea mays clone MRT4577_47546C.1.pep fragment)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 31

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Sequence |Patent

Source |Reference

=====+=====

Not Given|US2004214272

|claimed

|SEQID 311944

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MF C151 H234 N46 O40 S3

SR CA

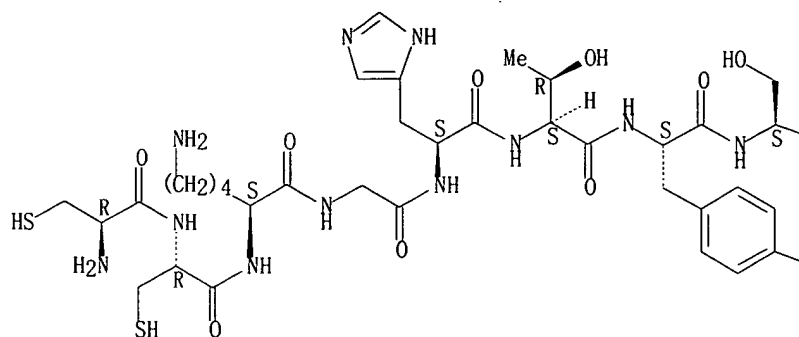
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DT.CA Caplus document type: Patent

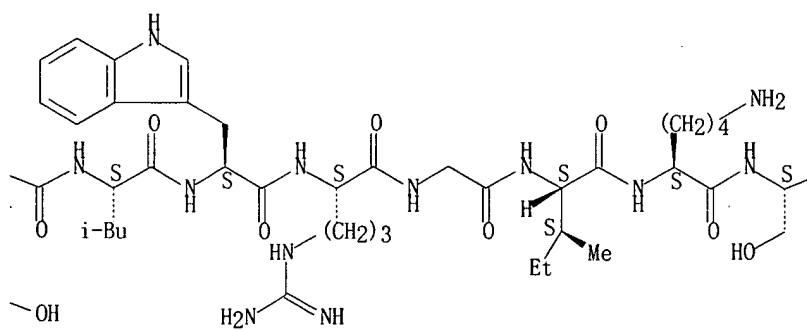
RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES
(Uses)

Absolute stereochemistry.

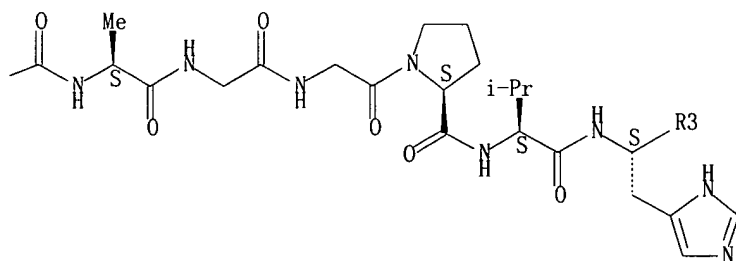
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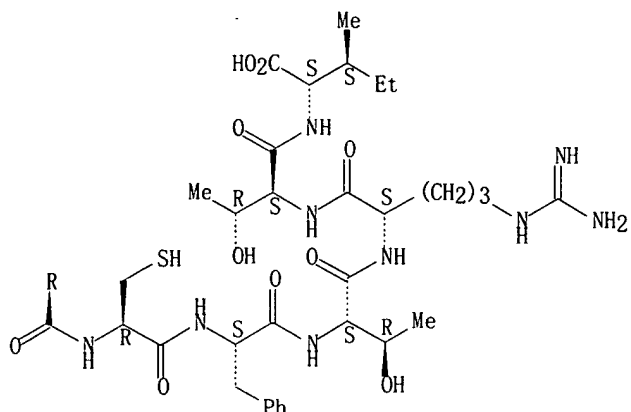
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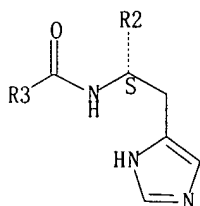
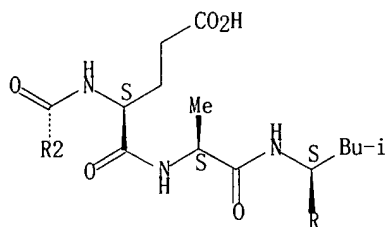
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 14 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 771485-31-5 REGISTRY

CN L-Cysteine, L-asparaginyll-L-isoleucyl-L-alanyl-L-lysyl-L-tyrosyl-L-seryl-L-isoleucylglycyl-L-arginyl-L-leucyl-L-arginyl-L-prolyl-L-histidyl-L-phenylalanyl-L-tyrosyl-L-threonyl-L-leucyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 18: PN: WO2004087736 SEQID: 18 unclaimed sequence

CN 40: PN: US20050002904 SEQID: 18 claimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 18

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

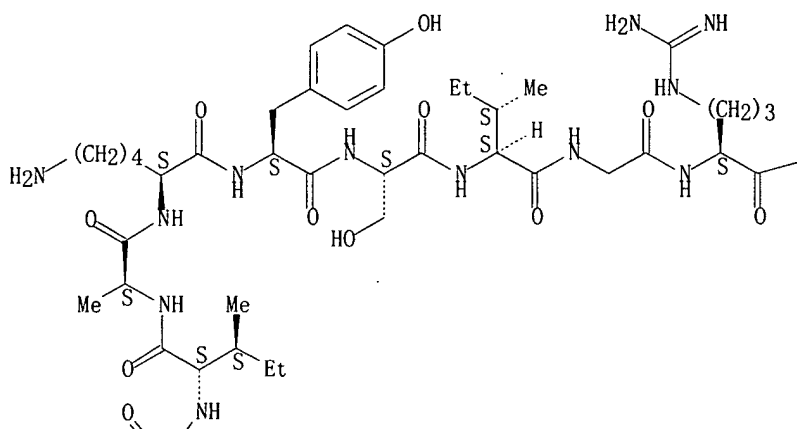
Search done by Noble Jarrell

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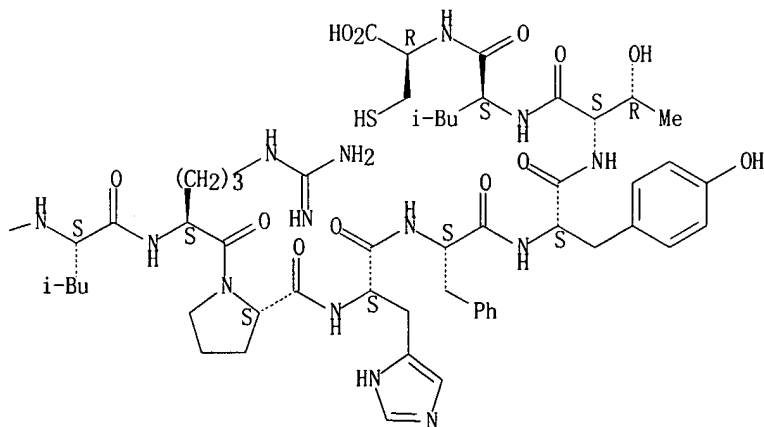
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 MF C99 H154 N28 O24 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)

Absolute stereochemistry.

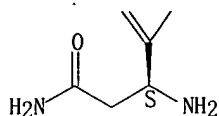
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 15 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN
RN 771485-25-7 REGISTRY
CN L-Cysteine, L- .alpha. -aspartyl-L-leucyl-L-alanyl-L-lysyl-L-tyrosyl-L-methionyl-L-isoleucylglycyl-L-arginyl-L-leucyl-L-arginyl-L-prolyl-L-asparaginy-L-phenylalanyl-L-leucyl-L-alanyl-L-valyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

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CN 39: PN: US20050002904 SEQID: 17 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 18

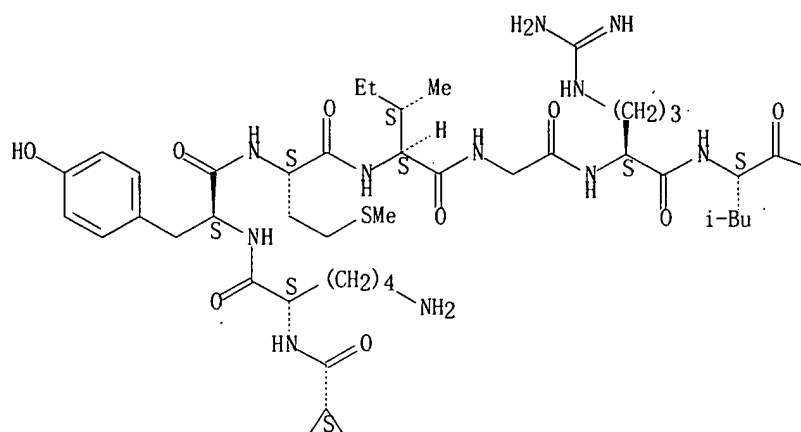
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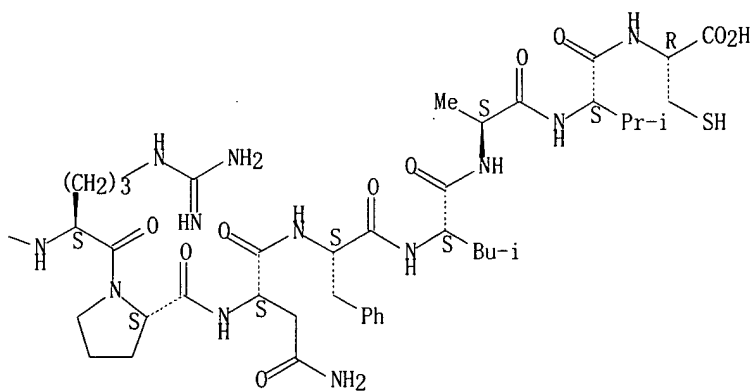
SEQ 1 DLAKYMIGRL RPNFLAVC
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LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Cplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)

Absolute stereochemistry.

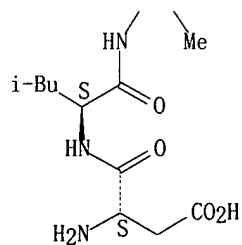
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****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Search done by Noble Jarrell

L35 ANSWER 16 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 771485-14-4 REGISTRY
 CN L-Cysteine, L-.alpha.-aspartyl-L-isoleucyl-L-alanyl-L-lysyl-L-tyrosyl-L-seryl-L-isoleucylglycyl-L-arginyl-L-leucyl-L-arginyl-L-prolyl-L-histidyl-L-phenylalanyl-L-leucyl-L-alanyl-L-valyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 15: PN: W02004087736 SEQID: 15 unclaimed sequence
 CN 37: PN: US20050002904 SEQID: 15 claimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 18

PATENT ANNOTATIONS (PNTE):

Sequence | Patent

Source | Reference

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Not Given | W02004087736
 | unclaimed
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SR CA

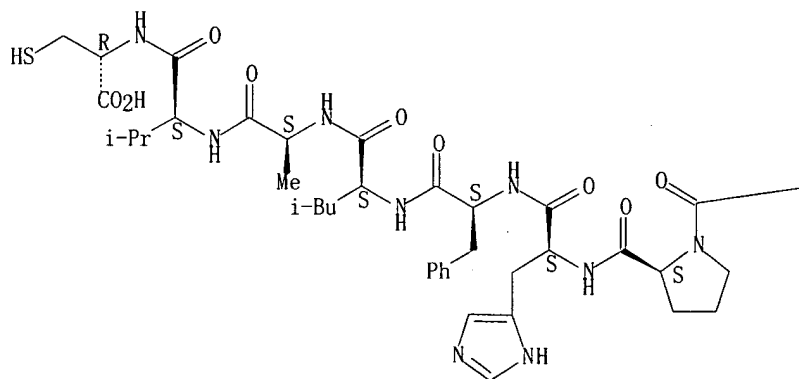
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DT.CA CAplus document type: Patent

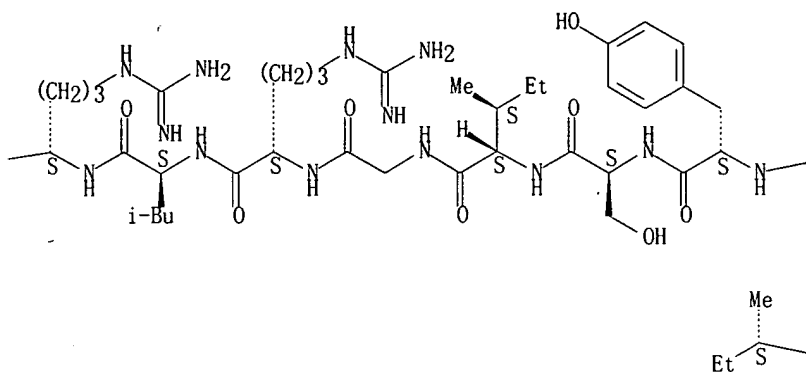
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP
 (Properties); USES (Uses)

Absolute stereochemistry.

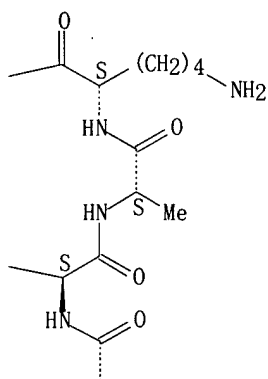
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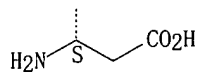
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***PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 17 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 771485-09-7 REGISTRY

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Search done by Noble Jarrell

OTHER NAMES:

CN 14: PN: WO2004087736 SEQID: 14 unclaimed sequence
 CN 36: PN: US20050002904 SEQID: 14 claimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 18

PATENT ANNOTATIONS (PNTE):

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Source	Reference
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	unclaimed
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MF C90 H151 N27 O23 S

SR CA

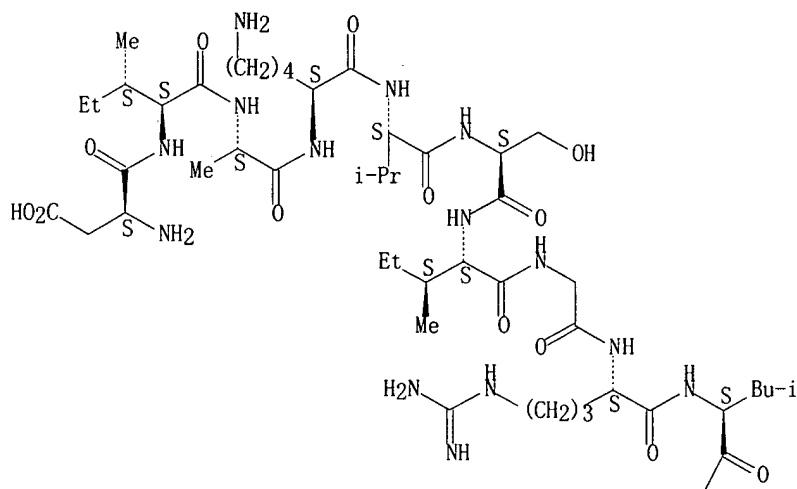
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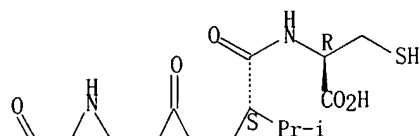
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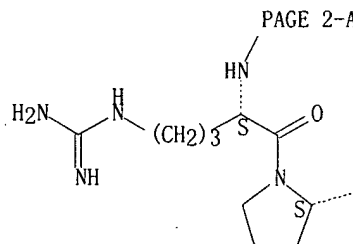
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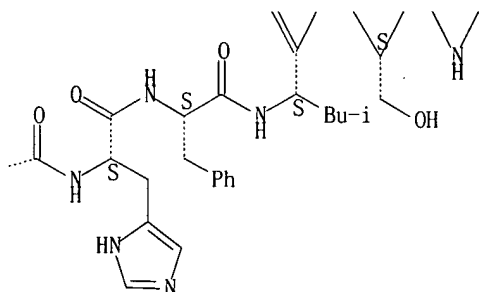
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 18 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN

RN 309260-10-4 REGISTRY

CN L-Alanine, glycyl-L-lysylglycyl-L-lysyl-L-seryl-L-isoleucylglycyl-L-arginyl-L-alanyl-L-prolyl-L-. alpha. -glutamyl-L-alanyl-L-seryl-L-leucyl-L-

Search done by Noble Jarrell

glutaminyl-L-.alpha.-aspartyl-L-lysyl-L-.alpha.-glutamylglycyl- (9CI) (CA
INDEX NAME)

OTHER NAMES:

CN 33: PN: W00231512 TABLE: 4 unclaimed sequence
CN 40: PN: W00069896 TABLE: 4 unclaimed sequence
CN 41: PN: W00242422 PAGE: 64 unclaimed sequence
CN 66: PN: US20050019841 PAGE: 82 unclaimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 20

PATENT ANNOTATIONS (PNTE):

Sequence | Patent

Source | Reference

Not Given | W02000069896

| unclaimed

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| unclaimed

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| W02002042422

| unclaimed

| PAGE 64

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MF C83 H143 N27 O30

SR CA

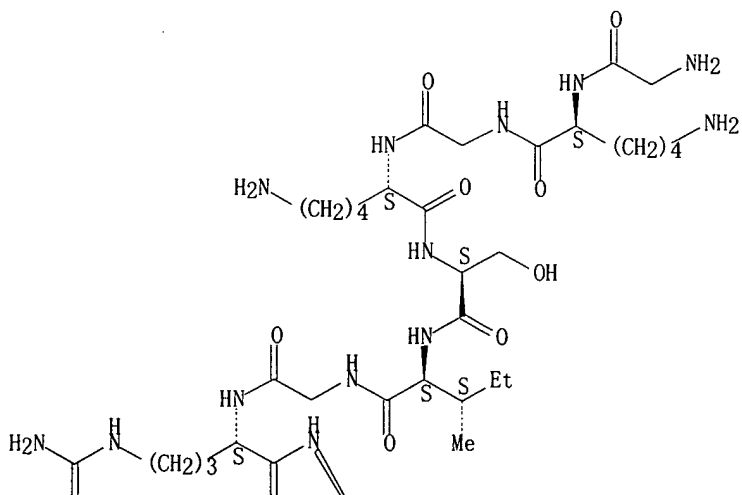
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DT.CA CAplus document type: Patent

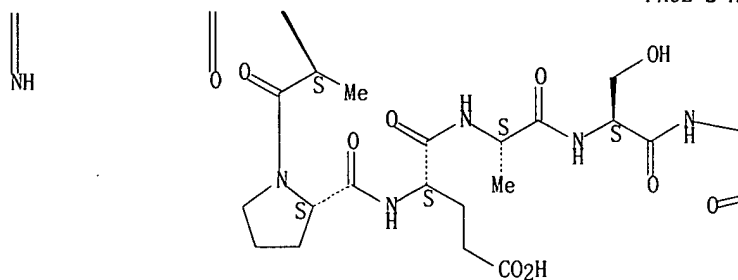
RL.P Roles from patents: PRP (Properties)

Absolute stereochemistry.

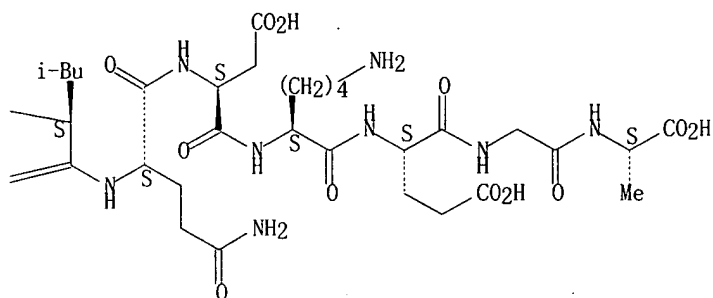
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 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L35 ANSWER 19 OF 19 REGISTRY COPYRIGHT 2005 ACS on STN .
 RN 148305-84-4 REGISTRY
 CN L-Proline, L-arginyl-L-.alpha.-aspartyl-L-threonylglycyl-L-isoleucyl-L-leucyl-L-.alpha.-aspartyl-L-seryl-L-isoleucylglycyl-L-arginyl-L-phenylalanyl-L-phenylalanylglycylglycyl-L-.alpha.-aspartyl-L-arginylglycyl-L-alanyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 145: PN: W02004089973 SEQID: 145 unclaimed sequence
 CN 33: PN: W00206316 PAGE: 26 unclaimed sequence
 CN 34: PN: W00053161 SEQID: 34 unclaimed protein
 CN 4509: PN: W003040165 TABLE: 27a claimed protein
 CN 60: PN: W02004064863 PAGE: 94 unclaimed sequence
 CN 76: PN: W02004083372 PAGE: 143 unclaimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 20

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
Not Given	W02002006316
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 MF C91 H143 N29 O29

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

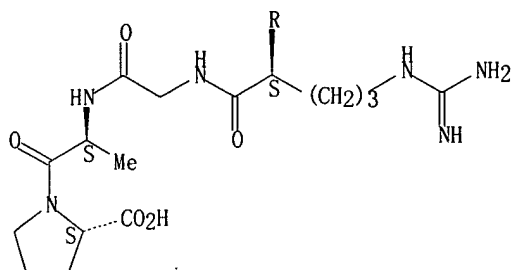
DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses)

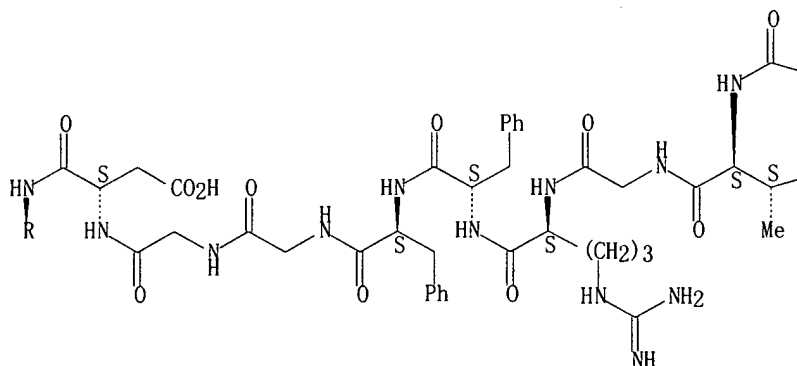
RL.NP Roles from non-patents: BIOL (Biological study)

Absolute stereochemistry.

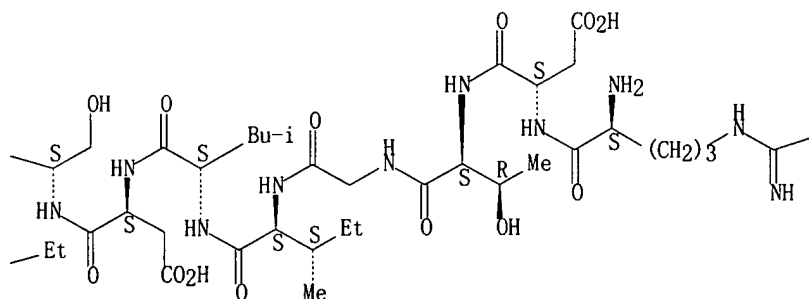
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10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b hcap
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FILE LAST UPDATED: 21 Mar 2005 (20050321/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L34 ANSWER 1 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:160730 HCAPLUS
ED Entered STN: 25 Feb 2005
TI Cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compounds in transgenic host cells
IN Loria, Rosemary; Crane, Brain; Kers, Johan; Gibson, Donna M.; Wach, Michael J.
PA USA
SO U.S. Pat. Appl. Publ., 55 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM C12Q001-68
ICS C07H021-04; C12N009-08
NCL 435006000; 435191000; 435069100; 435320100; 435325000; 536023200
CC 7-2 (Enzymes)
Section cross-reference(s): 3, 10, 16

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005042645	A1	20050224	US 2004-858706	20040602 <--

Search done by Noble Jarrell

PRAI US 2003-475111P P 20030602 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 20050042645	ICM	C12Q001-68
	ICS	C07H021-04; C12N009-08
	NCL	435006000; 435191000; 435069100; 435320100; 435325000; 536023200

- AB The present invention relates to isolated nucleic acid mols. encoding nitric oxide synthases of plant pathogenic Streptomyces and their use for catalyzing nitration and nitrosylation reactions and producing nitrated and/or nitrosylated compds. The nucleic acid sequences and the encoded amino acid sequences of nitric oxide synthases from Streptomyces acidiscabies, S. scabies, and S. turgidiscabies are disclosed. It was shown that plant pathogenic Streptomyces nitric oxide synthase participates in nitration of a peptide phycotoxin thaxtomin. The isolated nucleic acid mols. and their encoded protein or polypeptides are useful in methods for attaching a nitrogen group to a target moiety of a compound and for synthesizing a nitrogen-modified compound in a transgenic host cell. The present invention also relates to expression systems and host cells containing the nucleic acids of the present invention, as well as a method of recombinantly producing the nitric oxide synthases of the present invention.
- ST Streptomyces nitric oxide synthase sequence nitration nitrosylation thaxtomin; nitrogen modified compd nitric oxide synthase Streptomyces
- IT Glycosides
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (amino; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Fertilizers
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (ammonium nitrate; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Functional groups
 (aromatic, electron-rich; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT DNA sequences
 Fermentation
 Molecular cloning
 Nitro group
 Phenyl group
 Protein motifs
 Protein sequences
 Streptomyces
 Streptomyces acidiscabies
 Streptomyces avermitilis
 Streptomyces ipomoeae
 Streptomyces scabiei
 Streptomyces turgidiscabies
 (cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Alkaloids
 Balsams
 Essential oils
 Macrolides

Peptides

Phenols

Polyketides

Resins

Saponins

Steroids

Terpenes

Tetracyclines

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Transgene

RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Aspergillus

Bacillus (bacterium genus)

Brevibacterium

Cephalosporium

Escherichia

Eubacteria

Fungi

Microbacterium

Nocardia

Penicillium

Plant cell

Rhodococcus

Saccharomyces

Yeast

(cloning host; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Nitration

Nitrosation

(enzymic; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Functional groups

(indole; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Animal cell

(insect, cloning host; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Aglycons

Glycosides

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(iridoid; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Animal cell

(mammalian, cloning host; cloning and sequences of nitric oxide synthases of plant pathogenic Streptomyces and uses for production of nitrogen-modified compds. in transgenic host cells)

IT Functional groups

- (nitrogen group; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Organic compounds
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (nitrogen-containing; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Functional groups
 (nitroso group; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Gene, microbial
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (nos; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Acids
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (organic; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Toxins
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (phytotoxins; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Antibiotics
 Antitumor agents
 Fungicides
 Herbicides
 Insecticides
 Nematocides
 (production of; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Functional groups
 (tryptophanyl; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT Lactams
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (.beta.-; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 845843-22-3P 845843-23-4P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); CAT (Catalyst use); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 845843-24-5P 845843-25-6P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation)
 (amino acid sequence; cloning and sequences of nitric oxide synthases

- of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 122380-18-1, Thaxtomin A
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (biosynthesis of; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 55-63-0P, Nitroglycerin 56-75-7P, Chloramphenicol 78-11-5P, Pentaerythritol tetranitrate 118-96-7P, Trinitrotoluene 121-82-4P, Cyclotrimethylenetrinitramine 5854-93-3P, L-Alanosine
 RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 (cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 125978-95-2P, Nitric oxide synthase
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); CAT (Catalyst use); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 845843-32-5P 845843-33-6P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation)
 (cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 667853-11-4, GenBank AY204507 667853-13-6, GenBank AY204508 667853-15-8, GenBank AY204509
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 845843-19-8, DNA (*Streptomyces acidiscabies* gene nos) 845843-20-1, DNA (*Streptomyces scabiei* gene nos) 845843-21-2
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (nucleotide sequence; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 845830-96-8 845830-98-0 845830-99-1 845831-00-7 845831-01-8
 845831-02-9 845831-03-0 845831-04-1 845831-05-2
 845831-06-3 845831-07-4 845831-08-5 845831-09-6 845831-10-9
 845831-11-0 845831-12-1 845831-13-2 845831-14-3 845831-15-4
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 845831-25-6 845831-26-7 845831-27-8 845831-28-9 845831-29-0
 845843-26-7 845843-27-8 845843-28-9 845843-29-0 845843-30-3
 845843-31-4
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (protein motif; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of nitrogen-modified compds. in transgenic host cells)
- IT 845847-69-0 845847-70-3 845847-71-4 845847-72-5 845847-73-6
 845847-74-7 845847-75-8 845847-76-9 845847-77-0 845858-32-4
 RL: PRP (Properties)
 (unclaimed protein sequence; cloning and sequences of nitric oxide synthases of plant pathogenic *Streptomyces* and uses for production of

nitrogen-modified compds. in transgenic host cells)
 IT 845847-78-1 845847-79-2
 RL: PRP (Properties)
 (unclaimed sequence; cloning and sequences of nitric oxide synthases of
 plant pathogenic Streptomyces and uses for production of nitrogen-modified
 compds. in transgenic host cells)

L34 ANSWER 2 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:140586 HCAPLUS
 DN 142:236080
 ED Entered STN: 18 Feb 2005
 TI Continuous-flow method for preparing microparticles for potential use in
 gene therapy or antisense therapy, vaccination, treatment of autoimmune
 disease
 IN Tyo, Michael; Hsu, Yung-yueh; Hedley, Mary Lynne
 PA Zycos Inc., USA
 SO U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 715,708,
 abandoned.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM C12N015-87
 ICS A61K009-14; B29C039-10
 NCL 424489000; 435459000; 264004000
 CC 9-16 (Biochemical Methods)
 Section cross-reference(s): 3, 15, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005037086	A1	20050217	US 2004-758970	20040116 <--
PRAI	US 1999-166516P	P	19991119	<--	
	US 2000-715708	B1	20001117	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005037086	ICM	C12N015-87
	ICS	A61K009-14; B29C039-10
	NCL	424489000; 435459000; 264004000

AB The invention is based on the discovery of a method for scalable,
 continuous flow production of a nucleic acid-containing microparticle that
 maintains the structural integrity of the associated nucleic acid and results
 in a microparticle having a purity suitable for introduction into an
 animal (e.g., human) host. Microparticles prepared according to the
 continuous flow processes described herein can be used for delivery of a
 nucleic acid for gene therapy, antisense therapy, vaccination, treatment
 of autoimmune disease, and either specific or non-specific modulation of
 an immune response (e.g., via cytokine regulation). The microparticles
 can addnl. be used to deliver nucleic acid encoding a protein or peptide
 useful in any type of therapy.

ST flow prepn microparticle antisense gene therapy autoimmune disease
 vaccination

IT Screens (mesh)

(Fine-mesh; continuous-flow method for preparing microparticles for
 potential use in gene therapy or antisense therapy, vaccination,
 treatment of autoimmune disease)

IT Vacuum

(Partial; continuous-flow method for preparing microparticles for
 potential use in gene therapy or antisense therapy, vaccination,
 treatment of autoimmune disease)

IT Drying

(air; continuous-flow method for preparing microparticles for potential

- use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Homogenization
(apparatus, tip; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Molecular weight
(average; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Polymers, uses
RL: NUU (Other use, unclassified); USES (Uses)
(biodegradable; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Containers
(cartridges, Hollow-fiber; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Agitation (mechanical)
Animal
Autoimmune disease
Bioreactors
Buffers
Filtration
Freeze drying
Gene therapy
Human
Microparticles
Stabilizing agents
Ultrafilters
(continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Carbohydrates, uses
Lipids, uses
RL: NUU (Other use, unclassified); USES (Uses)
(continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Mixers (processing apparatus)
(homogenization apparatus, tip; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Cytokines
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(regulation for modulation of immune response; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT DNA
RL: PUR (Purification or recovery); PREP (Preparation)
(supercoiled circular; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Antisense oligonucleotides
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(therapy; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT Immunization
(vaccination; continuous-flow method for preparing microparticles for

- potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT 77-86-1, TRIS buffer
 RL: NUU (Other use, unclassified); USES (Uses)
 (-EDTA; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT 60-00-4, EDTA, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (Tris-; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT 115505-57-2 115505-63-0 115505-64-1 115521-13-6 119261-00-6
 119401-82-0 124470-29-7 127424-82-2 133209-09-3 133295-51-9
 136182-67-7 136494-37-6 137354-10-0 137354-11-1 144449-86-5
 145151-52-6 146554-61-2 147820-47-1 147934-24-5 148305-84-4
 148305-88-8 148305-93-5 149383-25-5 151423-78-8 151423-83-5
 151456-29-0 151808-57-0 151808-59-2 152015-90-2 152074-99-2
 152244-23-0 152244-24-1 152846-82-7 153607-10-4 153607-14-8
 153607-19-3 153607-20-6 153607-21-7 154330-44-6 154330-45-7
 154427-29-9 154652-68-3 155970-24-4 157048-07-2 158092-80-9
 158563-04-3 158563-18-9 160040-01-7 160040-02-8 160040-10-8
 160040-16-4 160040-20-0 160040-28-8 160040-31-3 160212-35-1
 160212-75-9 160212-76-0 160212-93-1 160214-77-7 160216-13-7
 160216-22-8 160216-59-1 160216-60-4 160295-81-8 160790-21-6
 160983-12-0 162558-08-9 162558-10-3 162558-12-5 163816-00-0
 166188-11-0 167319-68-8 167319-80-4 169896-35-9 170173-06-5
 170294-35-6 182620-15-1 182620-16-2 192066-10-7 207976-41-8
 223413-45-4 292633-20-6 292633-21-7 292633-22-8 292633-24-0
 292633-26-2 292633-27-3 292633-28-4 292633-30-8 292633-31-9
 292859-36-0 292859-37-1 292859-39-3 292859-40-6 292859-41-7
 292859-42-8 292859-43-9 292859-44-0 292859-45-1 292859-46-2
 292859-48-4 292859-49-5 331413-55-9 331413-56-0 380649-63-8
 RL: PRP (Properties)
 (Unclaimed; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT 75-09-2, Dichloromethane, uses 7732-18-5, Water, uses 9002-89-5, PVA 9003-07-0, Polypropylene 34346-01-5
 RL: NUU (Other use, unclassified); USES (Uses)
 (continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT 844906-32-7
 RL: PRP (Properties)
 (unclaimed protein sequence; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- IT 210629-19-9 210629-20-2 292633-18-2
 RL: PRP (Properties)
 (unclaimed sequence; continuous-flow method for preparing microparticles for potential use in gene therapy or antisense therapy, vaccination, treatment of autoimmune disease)
- L34 ANSWER 3 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2005:122713 HCAPLUS
 DN 142:217392
 ED Entered STN: 11 Feb 2005
 TI High affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping molecules, and therapeutic and diagnostic methods for use

IN Stahl, Neil; Yancopoulos, George D.; Karow, Margaret; Smith, Eric
 PA USA
 SO U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U.S. Ser. No. 610,452.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM C07H021-04
 ICS C12P021-04; C12N009-64; C07K016-40
 NCL 435069700; 435320100; 435325000; 435226000; 530388100; 536023200
 CC 15-3 (Immunochemistry)
 Section cross-reference(s): 1, 3

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005032175	A1	20050210	US 2004-879994	20040629 <--
PRAI	US 2003-610452	A2	20030630	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005032175	ICM	C07H021-04
	ICS	C12P021-04; C12N009-64; C07K016-40
	NCL	435069700; 435320100; 435325000; 435226000; 530388100; 536023200

AB High affinity fusion proteins capable of binding and inhibiting the activity of soluble, interacting proteins ("SIPs") are described. In specific embodiments the fusion proteins, also called "trapbodies", are multimers, preferably dimers, of SIP-specific fusion polypeptides which comprise SIP binding domains derived from SIP targets and/or anti-SIP Ig domains, as well as multimerizing components. The fusion protein has combinations of domains, called IBD (ISP binding domain, one or more copies) and TBD (ISP target binding domain, one or more copies) derived from the natural binding partner for the target protein, such cytokine receptors, and an Ig domain binding the target protein, such as scFv, and a multimerizing domain called M. In particular embodiments, IL-18 or IL-6 trap constructs comprising the extracellular domain of human IL-18 receptor alpha (hIL-18Ra), antibody-human IL-18 single chain Fv (anti-hIL-18 scFv), and Fc domain of human IgG1 (Fc); or anti-human IL-6 single chain Fv (one or two copies) and Fc domain of human IgG1 (Fc) resp. are provided.

ST soluble protein trapping receptor antibody fusion construct diagnosis therapy

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(IgG, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(IgG1, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Mus musculus

(anti-IL6-ScFv of; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Ciliary neurotrophic factor

Cytokines

Interleukin 1
 Interleukin 10
 Interleukin 11
 Interleukin 13
 Interleukin 15
 Interleukin 18
 Interleukin 2
 Interleukin 3
 Interleukin 4
 Interleukin 5
 Interleukin 6
 Interleukin 7
 Interleukin 9

Leukemia inhibitory factor

Macrophage migration inhibitory factor

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(capture of; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(fragments, heavy chain Fc, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

Cytokine receptors

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Human

(hIL-18Ra of; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(heavy chain, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Protein engineering

(high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Fusion proteins (chimeric proteins)

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(humanized, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Interleukin receptors

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(interleukin 18, hIL-18Ra, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(light chain, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(single chain, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties);
THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study);
USES (Uses)

(single chain, to IL-6, ScFv, fusion products; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT Interferons

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(.gamma., capture of; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 83869-56-1, GM-CSF 106956-32-5, Oncostatin M 180132-69-8, Cardiotrophin 1

RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(capture of; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 148784-58-1, GenBank X70421 173889-25-3, GenBank U43672 252711-37-8, GenBank AB017433 252711-38-9, GenBank AB017434

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 152510-28-6 157414-72-7 189286-60-0 478241-55-3 481717-33-3 733021-30-2 827301-67-7 827301-84-8 827302-00-1 827302-03-4

827302-10-3 827302-13-6

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(mouse anti-IL6 Ig heavy chain CDR1; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 827301-68-8 827301-70-2 827301-76-8 827301-78-0
827301-85-9 827301-87-1 827301-92-8 827301-94-0 827302-01-2
827302-04-5 827302-11-4 827302-14-7

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(mouse anti-IL6 Ig heavy chain CDR2; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 827301-69-9 827301-71-3 827301-77-9 827301-79-1 827301-86-0
827301-88-2 827301-93-9 827301-95-1 827302-02-3 827302-05-6
827302-12-5 827302-15-8

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(mouse anti-IL6 Ig heavy chain CDR3; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 153288-60-9 384331-86-6 827301-72-4 827301-74-6 827301-82-6
827301-90-6 827301-96-2 827301-98-4 827302-06-7 827302-08-9
827302-16-9 827302-19-2

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(mouse anti-IL6 Ig light chain CDR1; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 162290-70-2 189286-53-1 454450-75-0 827301-80-4 827302-17-0

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(mouse anti-IL6 Ig light chain CDR2; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 827301-73-5 827301-75-7 827301-81-5 827301-83-7 827301-89-3
827301-91-7 827301-97-3 827301-99-5 827302-07-8 827302-09-0
827302-18-1 827302-20-5

RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(mouse anti-IL6 Ig light chain CDR3; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 842985-39-1 842985-40-4 842985-42-6 842985-44-8 842985-46-0
842985-48-2 842985-50-6 842985-52-8 842985-54-0 842985-56-2
842985-58-4 842985-60-8 842985-62-0 842985-64-2 842985-66-4
842985-68-6 842985-70-0 842985-72-2 842985-74-4 842985-76-6

RL: PRP (Properties)

(unclaimed nucleotide sequence; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 842985-41-5 842985-43-7 842985-45-9 842985-47-1 842985-49-3
842985-51-7 842985-53-9 842985-55-1 842985-57-3 842985-59-5

842985-61-9 842985-63-1 842985-65-3 842985-67-5 842985-69-7
 842985-71-1 842985-73-3 842985-75-5 842985-77-7

RL: PRP (Properties)

(unclaimed protein sequence; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

IT 501668-01-5

RL: PRP (Properties)

(unclaimed sequence; high affinity fusion proteins comprising domains of soluble interacting protein target receptor or specific antibodies as trapping mols., and therapeutic and diagnostic methods for use)

L34 ANSWER 4 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:78095 HCAPLUS

DN 142:170103

ED Entered STN: 28 Jan 2005

TI Inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between the receptor and PDZ domain proteins

IN Garman, Jonathan David; Lu, Peter S.

PA Arbor Vita Corporation, USA

SO U.S. Pat. Appl. Publ., 111 pp., Cont.-in-part of Appl. No. PCT/US02/24655.

CODEN: USXXCO

DT Patent

LA English

IC ICM G01N033-53

NCL 435007500; 530350000

CC 1-11 (Pharmacology)

FAN.CNT 21

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005019841	A1	20050127	US 2003-684796	20031014 <--
	US 2003049695	A1	20030313	US 2002-80273	20020219 <--
	WO 2003014303	A2	20030220	WO 2002-US24655	20020802 <--
	WO 2003014303	A3	20030814		
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
	US 2005037969	A1	20050217	US 2004-938249	20040910 <--
PRAI	US 1999-134114P	P	19990514	<--	
	US 2000-570118	B2	20000512	<--	
	US 2000-724553	A2	20001128	<--	
	US 2001-269523P	P	20010216	<--	
	US 2001-309841P	P	20010803	<--	
	US 2002-80273	A2	20020219	<--	
	US 2002-360061P	P	20020225	<--	
	WO 2002-US24655	A2	20020802	<--	
	US 2002-418042P	P	20021011	<--	
	US 2002-426212P	P	20021114	<--	
	US 1999-134117P	P	19990514	<--	
	US 1999-134118P	P	19990514	<--	
	US 1999-160860P	P	19991021	<--	
	US 1999-162498P	P	19991029	<--	
	US 1999-170453P	P	19991213	<--	

US 2000-176195P	P	20000114	<--
US 2000-182296P	P	20000214	<--
US 2000-196267P	P	20000411	<--
US 2000-196460P	P	20000411	<--
US 2000-196527P	P	20000411	<--
US 2000-196528P	P	20000411	<--
US 2000-547276	B2	20000411	<--
US 2000-569525	B2	20000512	<--
US 2000-570364	B2	20000512	<--
US 2000-688017	A2	20001013	<--
US 2000-710059	B2	20001111	<--
US 2001-269522P	P	20010216	<--
US 2001-269694P	P	20010216	<--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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US 2005019841	ICM	G01N033-53
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NCL	435007500; 530350000
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AB The invention provides reagents and methods for inhibiting or enhancing interactions between proteins in cells, particularly interactions between PDZ proteins and its binding partners (PL proteins.). In particular, these methods are used to block the interaction between .alpha.-adrenergic receptors and PDZ proteins to control the effects of .alpha.-adrenergic agonists. Interactions between .alpha.1 adrenergic receptors and PDZ proteins are identified and peptides thought to be involved in the interaction are identified.

ST adrenergic receptor PDZ domain protein interaction peptide inhibition

IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (MINT, PDZ domain-dependent interactions of; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)

IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (Magi-1 (membrane-associated guanylate kinase inverted 1), PDZ domain-dependent interactions of; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)

IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (PDZ domain-containing; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)

IT Interleukin 8 receptors
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (PDZ domain-dependent interactions of; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)

IT Proteins
 RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (PZD protein ligands, peptides derived from; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)

IT Proteins
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (TIP-1 (tat-interacting protein 1), PDZ domain-dependent interactions of; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)

IT Signal transduction, biological
 (adrenergic, modulation of; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain

- proteins)
- IT Peptidomimetics
(as inhibitors of PDZ protein interaction; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
- IT Peptides, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(as inhibitors of PDZ protein interaction; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
- IT G protein-coupled receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(modulating signal transduction via; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
- IT Peptides, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(reaction products, with biotin, as inhibitors of PDZ protein interaction; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
- IT Adrenoceptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.alpha.-, blocking signaling by; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
- IT Adrenoceptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.alpha.2, blocking signaling by; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
- IT 349588-13-2, GenBank AAG42364
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between receptor and PDZ domain proteins)
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RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)

(inhibiting .alpha.-adrenergic receptor signaling by blocking
 interaction between the receptor and PDZ domain proteins)

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RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)

(inhibiting .alpha.-adrenergic receptor signaling by blocking
 interaction between the receptor and PDZ domain proteins)

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	RL: PRP (Properties)				
	(unclaimed nucleotide sequence; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between the receptor and PDZ domain proteins)				
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	RL: PRP (Properties)				
	(unclaimed protein sequence; inhibiting .alpha.-adrenergic receptor signaling by blocking interaction between the receptor and PDZ domain proteins)				
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831181-17-0	831181-19-2	831181-21-6	831181-23-8	831181-25-0
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831181-37-4	831181-39-6	831181-41-0	831181-43-2	831181-45-4
831181-47-6	831181-49-8	831181-51-2	831181-53-4	831181-55-6
831181-57-8	831181-59-0	831181-61-4	831181-63-6	831181-65-8
831181-67-0	831181-69-2	831181-71-6	831181-73-8	831181-75-0
831181-77-2	831181-79-4	831181-81-8	831181-83-0	831181-85-2
831181-87-4	831181-89-6	831181-91-0	831181-93-2	831181-95-4
831181-97-6	831181-99-8	831182-01-5	831182-03-7	831182-05-9
831182-07-1	831182-09-3	831182-11-7	831182-13-9	831182-15-1
831182-17-3	831182-19-5	831182-21-9	831182-23-1	831182-25-3
831182-27-5	831182-29-7	831182-31-1	831182-33-3	831182-35-5
831182-37-7	831182-39-9	831182-41-3	831182-43-5	831182-45-7
831182-47-9	831182-48-0	831182-49-1	831182-50-4	831182-51-5
831182-52-6	831182-53-7	831182-54-8	831182-55-9	831182-56-0
831182-57-1	831182-58-2	831182-59-3	831182-60-6	

RL: PRP (Properties)

(unclaimed sequence; inhibiting .alpha.-adrenergic receptor signaling
by blocking interaction between the receptor and PDZ domain proteins)

IT	831182-61-7	831182-62-8	831182-63-9	831182-64-0	831182-65-1
	831182-66-2	831182-67-3	831182-68-4	831182-69-5	831182-70-8
	831182-71-9	831182-72-0	831182-73-1	831182-74-2	831182-75-3
	831182-76-4	831182-77-5	831182-78-6	831182-79-7	831182-80-0
	831182-81-1	831182-82-2	831182-83-3	831182-84-4	831182-85-5
	831182-86-6	831182-87-7	831182-88-8	831182-89-9	831182-90-2
	831182-91-3	831182-92-4	831182-93-5	831182-94-6	831182-95-7
	831182-96-8	831182-97-9	831182-98-0	831182-99-1	831183-00-7
	831183-01-8	831183-02-9	831183-03-0	831183-04-1	831183-05-2
	831183-06-3	831183-07-4	831183-08-5	831183-09-6	831183-10-9
	831183-11-0	831183-12-1	831183-13-2	831183-14-3	831183-15-4
	831183-16-5	831183-17-6	831183-18-7	831183-19-8	831183-20-1
	831183-21-2	831183-22-3	831183-23-4	831183-24-5	831183-25-6

831183-26-7 831183-27-8 831183-28-9

RL: PRP (Properties)

(unclaimed sequence; inhibiting .alpha.-adrenergic receptor signaling
by blocking interaction between the receptor and PDZ domain proteins)

L34 ANSWER 5 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:36481 HCAPLUS

DN 142:154241

ED Entered STN: 14 Jan 2005

TI Antibodies specific to pregnancy-associated plasma protein A for diagnosis
and treatment of proliferative disease

IN Nixon, Andrew; Hogan, Shannon

PA Dyax Corporation, USA

SO U.S. Pat. Appl. Publ., 168 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM C07K016-18

ICS C07H021-04; C12P021-04; C12N005-06

NCL 435069100; 435320100; 435326000; 530387100; 536023530

CC 15-3 (Immunochemistry)

Section cross-reference(s): 3, 9, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005009136	A1	20050113	US 2004-783311	20040219 <--
PRAI	US 2003-448515P	P	20030219	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005009136	ICM	C07K016-18
	ICS	C07H021-04; C12P021-04; C12N005-06
	NCL	435069100; 435320100; 435326000; 530387100; 536023530

AB The invention provides proteins that bind to human pregnancy-associated plasma protein A (PAPP-A), an 1547 amino acid glycoprotein which can form an ~200 kDa monomer or an ~400 kDa dimer. In one form, the proteins are antibodies. In one embodiment, the proteins can inhibit the ability of PAPP-A to interact (e.g., cleave) substrates such as IGFBP-4, IGFBP-5, and IGFBP-2. These antibodies and fragments are useful for diagnosis and treatment of proliferative diseases or IGF-1-regulated growth disorders such as glioblastoma, osteosarcoma, restenosis, etc.

ST pregnancy assocd plasma protein A ligand antibody proliferative disease;
IGF1 disease IGFBP2 IGFBP4 IGFBP5 monoclonal antibody human PAPPA

IT Cell proliferation

(IGF-1-regulated; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)

IT Insulin-like growth factor-binding proteins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)

(IGFBP-2; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)

IT Insulin-like growth factor-binding proteins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)

(IGFBP-4; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)

IT Insulin-like growth factor-binding proteins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)

(IGFBP-5; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)

- IT Antibodies and Immunoglobulins
 - RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 - DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (IgG; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Proteins
 - RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 - DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (PAPP-A (pregnancy-associated plasma protein A); antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Heart, disease
 - (angina pectoris; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Artery
 - (angioplasty; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Cardiovascular system, disease
 - Cytotoxic agents
 - DNA sequences
 - Drug delivery systems
 - Human
 - Labels
 - Molecular cloning
 - Nucleic acid hybridization
 - Phage display library
 - Protein sequences
 - Signal transduction, biological
 - Surgery
 - (antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Antibodies and Immunoglobulins
 - RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 - DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Promoter (genetic element)
 - RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 - (antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Insulin-like growth factor-binding proteins
 - Ligands
 - Nucleic acids
 - RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Biology
 - (cell, host; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Antibodies and Immunoglobulins
 - RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 - DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (chimeric; antibodies specific to pregnancy-associated plasma protein A for diagnosis and treatment of proliferative disease)
- IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (conjugates; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Artery, disease

(coronary, restenosis; antibodies specific to pregnancy-associated plasma
 protein A for diagnosis and treatment of proliferative disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (fragments; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Neuroglia, neoplasm

(glioblastoma; antibodies specific to pregnancy-associated plasma protein
 A for diagnosis and treatment of proliferative disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (heavy chain; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (humanized; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Heart, disease

(infarction; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (light chain; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Spinal cord

(lumbar, puncture; antibodies specific to pregnancy-associated plasma
 protein A for diagnosis and treatment of proliferative disease)

IT Antibodies and Immunoglobulins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (monoclonal; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT Bone, neoplasm

Sarcoma
 (osteosarcoma; antibodies specific to pregnancy-associated plasma protein
 A for diagnosis and treatment of proliferative disease)

IT Disease, animal

(proliferative; antibodies specific to pregnancy-associated plasma protein
 A for diagnosis and treatment of proliferative disease)

IT Artery, disease

(restenosis; antibodies specific to pregnancy-associated plasma protein A
 for diagnosis and treatment of proliferative disease)

IT	827352-24-9P	827352-25-0P	827352-27-2P	827352-29-4P	827352-31-8P
	827352-33-0P	827352-35-2P	827352-37-4P	827352-39-6P	827352-41-0P
	827352-43-2P	827352-45-4P	827352-47-6P	827352-49-8P	827352-51-2P
	827352-53-4P	827352-55-6P	827352-57-8P	827352-59-0P	827352-61-4P

827352-63-6P	827352-65-8P	827352-67-0P	827352-69-2P	827352-71-6P
827352-73-8P	827352-75-0P	827352-77-2P	827352-79-4P	827352-81-8P
827352-83-0P	827352-85-2P	827352-87-4P	827352-89-6P	827352-91-0P
827352-93-2P	827352-95-4P	827352-97-6P	827352-99-8P	827353-01-5P
827353-03-7P	827353-05-9P	827353-07-1P	827353-09-3P	827353-11-7P
827353-13-9P	827353-15-1P	827353-17-3P	827353-19-5P	827353-21-9P
827353-23-1P	827353-25-3P	827353-27-5P	827353-29-7P	827353-31-1P
827353-33-3P	827353-35-5P	827353-37-7P	827353-39-9P	827353-41-3P
827353-43-5P	827353-45-7P	827353-47-9P	827353-49-1P	

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; antibodies specific to pregnancy-associated plasma
 protein A for diagnosis and treatment of proliferative disease)

IT	149544-29-6	149544-30-9	173480-60-9	187593-10-8	194803-74-2
	217478-51-8	220540-59-0	220999-09-7	250143-99-8	268723-85-9
	268723-88-2	280106-91-4	280106-92-5	280107-04-2	302543-67-5
	328897-78-5	384331-87-7	444846-04-2	459124-39-1	500188-12-5
	548462-91-5	628723-83-1	671233-03-7	719271-55-3	719283-65-5
	765901-74-4	827300-24-3	827300-25-4	827300-26-5	827300-27-6
	827300-28-7	827300-29-8	827300-30-1	827300-31-2	827300-32-3
	827300-33-4	827300-34-5	827300-35-6	827300-36-7	827300-37-8
	827300-38-9	827300-39-0	827300-40-3	827300-41-4	827300-42-5
	827300-43-6	827300-44-7	827300-45-8	827300-46-9	827300-47-0
	827300-48-1	827300-49-2	827300-50-5	827300-51-6	827300-52-7
	827300-53-8	827300-54-9	827300-55-0	827300-56-1	827300-57-2
	827300-58-3	827300-59-4	827300-60-7	827300-61-8	827300-62-9
	827300-63-0	827300-64-1	827300-65-2	827300-66-3	827300-67-4
	827300-68-5	827300-69-6	827300-70-9	827300-71-0	827300-72-1
	827300-73-2	827300-74-3	827300-75-4	827300-76-5	827300-77-6
	827300-78-7	827300-79-8	827300-80-1	827300-81-2	827300-82-3
	827300-83-4	827300-84-5	827300-85-6	827300-86-7	827300-87-8
	827300-88-9	827300-89-0	827300-90-3	827300-91-4	827300-92-5
	827300-93-6	827300-94-7	827300-95-8	827300-96-9	827300-97-0
	827300-98-1	827300-99-2	827301-00-8	827301-01-9	827301-02-0
	827301-03-1	827301-04-2	827301-05-3	827301-06-4	827301-07-5
	827301-08-6	827301-09-7	827301-10-0	827301-11-1	827301-12-2
	827301-13-3	827301-14-4	827301-15-5	827301-16-6	827301-17-7
	827301-18-8	827301-19-9	827301-20-2	827301-21-3	827301-22-4
	827301-23-5	827301-24-6	827301-25-7	827301-26-8	827301-27-9
	827301-28-0	827301-29-1	827301-30-4	827301-31-5	827301-32-6
	827301-33-7	827301-34-8	827301-35-9	827301-36-0	827301-37-1
	827301-38-2	827301-39-3	827301-40-6	827301-41-7	827301-42-8
	827301-43-9	827301-44-0	827301-45-1	827301-46-2	827301-47-3
	827301-48-4	827301-49-5	827301-50-8	827301-51-9	827301-52-0
	827301-53-1	827301-54-2	827301-55-3	827301-56-4	827301-57-5
	827301-58-6	827301-59-7	827301-60-0	827301-61-1	827301-62-2
	827301-63-3	827301-64-4	827301-65-5	827301-66-6	827351-36-0
	827351-37-1	827351-38-2	827351-39-3	827351-40-6	827351-41-7
	827351-42-8	827351-43-9	827351-44-0	827351-45-1	827351-46-2
	827351-47-3	827351-48-4	827351-49-5	827351-50-8	827351-51-9
	827351-52-0	827351-53-1	827351-54-2	827351-55-3	827351-56-4
	827351-57-5	827351-58-6	827351-59-7	827351-61-1	827351-63-3

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP
 (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antibodies specific to pregnancy-associated plasma protein A for
 diagnosis and treatment of proliferative disease)

IT 61912-98-9, IGF 67763-96-6, IGF-1

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)

(antibodies specific to pregnancy-associated plasma protein A for

diagnosis and treatment of proliferative disease)

IT 827352-26-1P 827352-28-3P 827352-30-7P 827352-32-9P 827352-34-1P
 827352-36-3P 827352-38-5P 827352-40-9P 827352-42-1P 827352-44-3P
 827352-46-5P 827352-48-7P 827352-50-1P 827352-52-3P 827352-54-5P
 827352-56-7P 827352-58-9P 827352-60-3P 827352-62-5P 827352-64-7P
 827352-66-9P 827352-68-1P 827352-70-5P 827352-72-7P 827352-74-9P
 827352-76-1P 827352-78-3P 827352-80-7P 827352-82-9P 827352-84-1P
 827352-86-3P 827352-88-5P 827352-90-9P 827352-92-1P 827352-94-3P
 827352-96-5P 827352-98-7P 827353-00-4P 827353-02-6P 827353-04-8P
 827353-06-0P 827353-08-2P 827353-10-6P 827353-12-8P 827353-14-0P
 827353-16-2P 827353-18-4P 827353-20-8P 827353-22-0P 827353-24-2P
 827353-26-4P 827353-28-6P 827353-30-0P 827353-32-2P 827353-34-4P
 827353-36-6P 827353-38-8P 827353-40-2P 827353-42-4P 827353-44-6P
 827353-46-8P 827353-48-0P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (nucleotide sequence; antibodies specific to pregnancy-associated plasma
 protein A for diagnosis and treatment of proliferative disease)

IT 827353-77-5 827353-78-6 827353-79-7 827353-80-0 827353-81-1
 827353-82-2 827353-83-3

RL: PRP (Properties)
 (unclaimed nucleotide sequence; antibodies specific to
 pregnancy-associated plasma protein A for diagnosis and treatment of
 proliferative disease)

IT 827353-84-4

RL: PRP (Properties)
 (unclaimed protein sequence; antibodies specific to pregnancy-associated
 plasma protein A for diagnosis and treatment of proliferative disease)

L34 ANSWER 6 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:15782 HCAPLUS

DN 142:107374

ED Entered STN: 07 Jan 2005

TI VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b,
 VCIP-derived peptides, and uses for diagnosis and anti-angiogenic and
 anti-cancer therapy

IN Wary, Kishore K.; Humtsoe, Joseph O.

PA USA

SO U.S. Pat. Appl. Publ., 73 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM A61K048-00

NCL 424093200; 514044000

CC 1-6 (Pharmacology)

Section cross-reference(s): 3, 7, 13

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005002904	A1	20050106	US 2004-812238	20040329 <--
PRAI	US 2003-485164P	P	20030703	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005002904	ICM	A61K048-00
	NCL	424093200; 514044000

AB The inventors identified vascular endothelial growth factor and type I
 collagen inducible protein (VCIP), also known as phosphatidic acid
 phosphatase 2b (PAP2b), in a functional assay of angiogenesis.
 Previously, VCIP was not known to function as an integrin ligand. The

present invention discloses that VCIP-derived peptides and proteins act as integrin ligands. Expression of recombinant VCIP promoted adhesion, spreading and tyrosine phosphorylation of Fak, Shc, Cas and paxillin in endothelial cells. Since VCIP-derived peptides or proteins are capable of inhibiting specific cell-cell interactions, such inhibitors of cell-cell interactions would be useful for developing novel therapeutic approaches to treat diseases where these interactions have clear pathol.

consequences. Protein and cDNA sequences for human VCIP as well as VCIP-derived peptides are provided. For example, VCIP/PAP2b can be a novel target for anti-angiogenic, anti-cancer and anti-metastatic therapy.

- ST VCIP sequence cDNA human VEGF collagen inducible protein; phosphatidate phosphatase PAP2b VCIP cDNA sequence human; human VCIP integrin ligand target antitumor antiangiogenic therapy
- IT Cadherins
RL: BSU (Biological study, unclassified); BIOL (Biological study) (E-, VCIP interacting with p120-catenin independent of; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Transcription factors
RL: BSU (Biological study, unclassified); BIOL (Biological study) (LEF-1 (lymphoid enhancer-binding factor 1), VCIP regulating; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(VCIP (vascular endothelial growth factor- and type I collagen-inducible protein), (PAP2b); protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and therapy)
- IT Integrins
RL: BSU (Biological study, unclassified); BIOL (Biological study) (VCIP as ligand of; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Signal transduction, biological
(VCIP mediating; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Gene, animal
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(VCIP, /PAP2b; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Peptides, biological studies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(VCIP-derived; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Epitopes
(VCIP; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Antibodies and Immunoglobulins

- RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (against VCIP; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Antiarteriosclerotics
 (antiatherosclerotics; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Eye, disease
 (diabetic retinopathy; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Atherosclerosis
 (expansion of atherosclerotic lesion; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Heart
 Placenta
 (gene VCIP highly expressed in; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Growth factors, animal
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (inducing expression of VCIP; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Heart, disease
 (infarction; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Drug delivery systems
 (liposomes; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Neoplasm
 (metastasis, anti-metastatic therapy; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Diagnosis
 (mol.; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Enzyme functional sites
 Protein motifs
 (of VCIP, in therapeutic peptides; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Catenins
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (p120, VCIP interacting with; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Cell cycle
 (progression; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Cytokines
 RL: BSU (Biological study, unclassified); BIOL (Biological study)

(proinflammatory, inducing expression of VCIP; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

- IT Angiogenesis
 - Angiogenesis inhibitors
 - Anti-inflammatory agents
 - Antiarthritics
 - Antidiabetic agents
 - Antitumor agents
 - Arthritis
 - Blood-brain barrier
 - Capillary vessel
 - Cell migration
 - Drug targets
 - Gene therapy
 - Human
 - Molecular cloning
 - Protein sequences
 - Psoriasis
 - Retroviral vectors
 - Test kits
 - Thrombosis
 - Viral vectors
 - cDNA sequences
 - (protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Brain, disease
 - (stroke; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Heart
 - (toxicity, gene VCIP highly expressed in; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Inflammation
 - Neoplasm
 - (treatment of; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Collagens, biological studies
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (type I; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Blood vessel, disease
 - (vascular malformation; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Integrins
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (.alpha.v.beta.3, VCIP interacting with; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)
- IT Integrins
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (.alpha.5.beta.1, VCIP interacting with; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as

PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT Catenins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta.-, VCIP regulating; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 9025-77-8P, Phosphatidic acid phosphatase

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(2b, /PAP2b, (VCIP); protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 109319-16-6

RL: BSU (Biological study, unclassified); BIOL (Biological study) (VCIP co-expressed in tumor vasculature with; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 91037-75-1P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence, RGD motif-containing peptide of VCIP; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 771485-43-9P 771485-60-0P 771485-65-5P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence, RGD motif-containing peptide; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 771484-90-3P 771484-95-8P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence, VCIP epitope; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 771485-09-7P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence, VCIP lipid phosphatase domain; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 771485-14-4P 771485-19-9P 771485-25-7P

771485-31-5P 771485-37-1P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence, lipid phosphatase domain; protein and cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP), also known as PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 771485-48-4P 771485-54-2P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (amino acid sequence, mutated RGD motif-containing peptide; protein and
 cDNA sequences of VEGF- and type I collagen-inducible protein (VCIP),
 also known as PAP2b, and uses for diagnosis and anti-angiogenic and
 anti-cancer therapy)

IT 771485-72-4P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (amino acid sequence, protein motif of VCIP; protein and cDNA sequences
 of VEGF- and type I collagen-inducible protein (VCIP), also known as
 PAP2b, and uses for diagnosis and anti-angiogenic and anti-cancer
 therapy)

IT 823562-61-4DP, subfragments are claimed

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study,
 unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic
 use); ANST (Analytical study); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (amino acid sequence; protein and cDNA sequences of VEGF- and type I
 collagen-inducible protein (VCIP), also known as PAP2b, and uses for
 diagnosis and anti-angiogenic and anti-cancer therapy)

IT 127464-60-2, Vascular endothelial growth factor

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (protein and cDNA sequences of VEGF- and type I collagen-inducible
 protein (VCIP), also known as PAP2b, and uses for diagnosis and
 anti-angiogenic and anti-cancer therapy)

IT 823562-81-8 823562-82-9 823562-83-0 823562-84-1 823562-85-2
 823562-86-3 823562-87-4 823562-88-5 823562-89-6 823562-90-9
 823562-91-0 823562-92-1 823562-93-2 823562-94-3 823562-95-4
 823562-96-5 823562-97-6 823562-98-7 823562-99-8

RL: PRP (Properties)
 (unclaimed nucleotide sequence; vEGF- and type I collagen-inducible
 protein (VCIP), also known as PAP2b, VCIP-derived peptides, and uses
 for diagnosis and anti-angiogenic and anti-cancer therapy)

IT 92000-76-5

RL: PRP (Properties)
 (unclaimed sequence; vEGF- and type I collagen-inducible protein
 (VCIP), also known as PAP2b, VCIP-derived peptides, and uses for
 diagnosis and anti-angiogenic and anti-cancer therapy)

L34 ANSWER 7 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:8670 HCAPLUS

DN 142:87720

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TI Myxococcus xanthus genome and proteome sequences

IN Goldman, Barry S.; Hinkle, Gregory J.; Slater, Steven C.; Wiegand, Roger
 C.

PA Monsanto Technology, Llc, USA

SO U.S., 25 pp.

CODEN: USXXAM

DT Patent

LA English

IC C07H021-00

NCL 536023100; 435252300; 800013000

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 10

FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 6833447	B1	20041221	US 2001-902540	20010710 <--
	US 6833447	B1	20041221	US 2001-902540	20010710 <--
PRAI	US 2000-217883P	P	20000710	<--	
	US 2001-902540	A	20010710	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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US 6833447	IC	C07H021-00
	NCL	536023100; 435252300; 800013000

AB The present invention relates to nucleic acid sequences from the bacterium, *Myxococcus xanthus* and, in particular, to genomic DNA sequences. Approx. 38,000 genomic nucleotide sequence traces derived from a double-stranded plasmid library prepared from *Myxococcus xanthus* strain DK1622 are generated and assembled into 1849 contig and singleton sequences, providing a set of about 7842 genes or partial genes and 7134 proteins. A series of predictive and homol. based methods identify proteins involved in polyketide synthesis, serine/threonine protein kinases, antibiotic resistance proteins, DNA modification and restriction enzymes, sigma factors, and nitrate pathway proteins. The invention also encompasses oligonucleotides including primers, e.g. useful for amplifying nucleic acid mols., and collections of nucleic acid mols. and oligonucleotides, e.g. in microarrays. The invention also provides constructs and transgenic cells and organisms comprising nucleic acid mols. of the invention. The invention also relates to methods of using the disclosed nucleic acid mols., oligonucleotides, proteins, fragments of proteins, and antibodies, for example, for gene identification and anal., and preparation of constructs and transgenic cells and organisms. [This abstract record is one of four records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

ST *Myxococcus xanthus* genome proteome sequence; gene sequence *Myxococcus xanthus* genome; protein sequence *Myxococcus xanthus* proteome

IT DNA sequences
Genome
Molecular cloning
Myxococcus xanthus
Protein sequences
(*Myxococcus xanthus* genome and proteome sequences)

IT Gene, microbial
Proteins
Proteome
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(*Myxococcus xanthus* genome and proteome sequences)

IT Plant cell
(gene cloning in; *Myxococcus xanthus* genome and proteome sequences)

IT Antibiotic resistance
(genes and proteins involved in; *Myxococcus xanthus* genome and proteome sequences)

IT Transcription factors
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(.sigma.; *Myxococcus xanthus* genome and proteome sequences)

IT 9080-03-9, Nitrite reductase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(*Myxococcus xanthus* genome and proteome sequences)

IT 9026-43-1, Serine/threonine protein kinase 9075-08-5, Restriction endonuclease 79956-01-7, Polyketide synthetase 81457-99-0, DNA modification methylase
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(Myxococcus xanthus genome and proteome sequences)

IT	817167-47-8	817167-48-9	817167-49-0	817167-50-3	817167-51-4
	817167-52-5	817167-53-6	817167-54-7	817167-55-8	817167-56-9
	817167-57-0	817167-58-1	817167-59-2	817167-60-5	817167-61-6
	817167-62-7	817167-63-8	817167-64-9	817167-65-0	817167-66-1
	817167-67-2	817167-68-3	817167-69-4	817167-70-7	817167-71-8
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	817168-04-0	817168-05-1	817168-06-2	817168-07-3	817292-69-6
	817292-70-9	817292-71-0	817292-72-1	817292-73-2	817292-74-3
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	817293-35-9	817293-36-0	817293-37-1	817293-38-2	817293-39-3
	817293-40-6	817293-41-7	817293-42-8	817293-43-9	817293-44-0
	817293-45-1	817293-46-2	817293-47-3	817293-48-4	817293-49-5
	817293-50-8	817293-51-9	817293-52-0	817293-53-1	817293-54-2
	817293-55-3	817293-56-4	817293-57-5	817293-58-6	817293-59-7
	817293-60-0	817293-61-1	817293-62-2	817293-63-3	817293-64-4
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	817293-70-2	817293-71-3	817293-72-4	817293-73-5	817293-74-6
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	817294-16-9	817294-17-0	817294-18-1	817294-19-2	817294-20-5
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	817294-31-8	817294-32-9	817294-33-0	817294-34-1	817294-35-2
	817294-36-3	817294-37-4	817294-38-5	817294-39-6	817294-40-9
	817294-41-0	817294-42-1	817294-43-2	817294-44-3	817294-45-4

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817294-46-5	817294-47-6	817294-48-7	817294-49-8	817294-50-1
	817294-51-2	817294-52-3	817294-53-4	817294-54-5	817294-55-6
	817294-56-7	817294-57-8	817294-58-9	817294-59-0	817294-60-3
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	817294-66-9	817294-67-0	817294-68-1	817294-69-2	817294-70-5
	817294-71-6	817294-72-7	817294-73-8	817294-74-9	817294-75-0
	817294-76-1	817294-77-2	817294-78-3	817294-79-4	817294-80-7
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	817294-86-3	817294-87-4	817294-88-5	817294-89-6	817294-90-9
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817294-96-5	817294-97-6	817294-98-7	817294-99-8	817295-00-4
817295-01-5	817295-02-6	817295-03-7	817295-04-8	817295-05-9
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817295-46-8	817295-47-9	817295-48-0	817295-49-1	817295-50-4
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817295-61-7	817295-62-8	817295-63-9	817295-64-0	817295-65-1
817295-66-2	817295-67-3	817295-68-4	817295-69-5	817295-70-8
817295-71-9	817295-72-0	817295-73-1	817295-74-2	817295-75-3
817295-76-4	817295-77-5	817295-78-6	817295-79-7	817295-80-0
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817295-86-6	817295-87-7	817295-88-8	817295-89-9	817295-90-2
817295-91-3	817295-92-4	817295-93-5	817295-94-6	817295-95-7
817295-96-8	817295-97-9	817295-98-0	817295-99-1	817296-00-7
817296-01-8	817296-02-9	817296-03-0	817296-04-1	817296-05-2
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817296-16-5	817296-17-6	817296-18-7	817296-19-8	817296-20-1
817296-21-2	817296-22-3	817296-23-4	817296-24-5	817296-25-6
817296-26-7	817296-27-8	817296-28-9	817296-29-0	817296-30-3
817296-31-4	817296-32-5	817296-33-6	817296-34-7	817296-35-8
817296-36-9	817296-37-0	817296-38-1	817296-39-2	817296-40-5
817296-41-6	817296-42-7	817296-43-8	817296-44-9	817296-45-0
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817296-51-8	817296-52-9	817296-53-0	817296-54-1	817296-55-2
817296-56-3	817296-57-4	817296-58-5	817296-59-6	817296-60-9
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817296-66-5	817296-67-6	817296-68-7	817296-69-8	817296-70-1
817296-71-2	817296-72-3	817296-73-4	817296-74-5	817296-75-6
817296-76-7	817296-77-8	817296-78-9	817296-79-0	817296-80-3

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817296-81-4	817296-82-5	817296-83-6	817296-84-7	817296-85-8
	817296-86-9	817296-87-0	817296-88-1	817296-89-2	817296-90-5
	817296-91-6	817296-92-7	817296-93-8	817296-94-9	817296-95-0
	817296-96-1	817296-97-2	817296-98-3	817296-99-4	817297-00-0
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	817297-06-6	817297-07-7	817297-08-8	817297-09-9	817297-10-2
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	817297-21-5	817297-22-6	817297-23-7	817297-24-8	817297-25-9
	817297-26-0	817297-27-1	817297-28-2	817297-29-3	817297-30-6
	817297-31-7	817297-32-8	817297-33-9	817297-34-0	817297-35-1
	817297-36-2	817297-37-3	817297-38-4	817297-39-5	817297-40-8
	817297-41-9	817297-42-0	817297-43-1	817297-44-2	817297-45-3
	817297-46-4	817297-47-5	817297-48-6	817297-49-7	817297-50-0
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	817297-56-6	817297-57-7	817297-58-8	817297-59-9	817297-60-2
	817297-61-3	817297-62-4	817297-63-5	817297-64-6	817297-65-7
	817297-66-8	817297-67-9	817297-68-0	817297-69-1	817297-70-4
	817297-71-5	817297-72-6	817297-73-7	817297-74-8	817297-75-9
	817297-76-0	817297-77-1	817297-78-2	817297-79-3	817297-80-6
	817297-81-7	817297-82-8	817297-83-9	817297-84-0	817297-85-1

817297-86-2	817297-87-3	817297-88-4	817297-89-5	817297-90-8
817297-91-9	817297-92-0	817297-93-1	817297-94-2	817297-95-3
817297-96-4	817297-97-5	817297-98-6	817297-99-7	817298-00-3
817298-01-4	817298-02-5	817298-03-6	817298-04-7	817298-05-8
817298-06-9	817298-07-0	817298-08-1	817298-09-2	817298-10-5
817298-11-6	817298-12-7	817298-13-8	817298-14-9	817298-15-0
817298-16-1	817298-17-2	817298-18-3	817298-19-4	817298-20-7
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817298-26-3	817298-27-4	817298-28-5	817298-29-6	817298-30-9
817298-31-0	817298-32-1	817298-33-2	817298-34-3	817298-35-4
817298-36-5	817298-37-6	817298-38-7	817298-39-8	817298-40-1
817298-41-2	817298-42-3	817298-43-4	817298-44-5	817298-45-6
817298-46-7	817298-47-8	817298-48-9	817298-49-0	817298-50-3
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817298-71-8	817298-72-9	817298-73-0	817298-74-1	817298-75-2
817298-76-3	817298-77-4	817298-78-5	817298-79-6	817298-80-9
817298-81-0	817298-82-1	817298-83-2	817298-84-3	817298-85-4
817298-86-5	817298-87-6	817298-88-7	817298-89-8	817298-90-1
817298-91-2	817298-92-3	817298-93-4	817298-94-5	817298-95-6
817298-96-7	817298-97-8	817298-98-9	817298-99-0	817299-00-6
817299-01-7	817299-02-8	817299-03-9	817299-04-0	817299-05-1
817299-06-2	817299-07-3	817299-08-4	817299-09-5	817299-10-8
817299-11-9	817299-12-0	817299-13-1	817299-14-2	817299-15-3

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT 817299-16-4	817299-17-5	817299-18-6	817299-19-7	817299-20-0
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817299-26-6	817299-27-7	817299-28-8	817299-29-9	817299-30-2
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817299-36-8	817299-37-9	817299-38-0	817299-39-1	817299-40-4
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817299-46-0	817299-47-1	817299-48-2	817299-49-3	817299-50-6
817299-51-7	817299-52-8	817299-53-9	817299-54-0	817299-55-1
817299-56-2	817299-57-3	817299-58-4	817299-59-5	817299-60-8
817299-61-9	817299-62-0	817299-63-1	817299-64-2	817299-65-3
817299-66-4	817299-67-5	817299-68-6	817299-69-7	817299-70-0
817299-71-1	817299-72-2	817299-73-3	817299-74-4	817299-75-5
817299-76-6	817299-77-7	817299-78-8	817299-79-9	817299-80-2
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817299-86-8	817299-87-9	817299-88-0	817299-89-1	817299-90-4
817299-91-5	817299-92-6	817299-93-7	817299-94-8	817299-95-9
817299-96-0	817299-97-1	817299-98-2	817299-99-3	817300-00-8
817300-01-9	817300-02-0	817300-03-1	817300-04-2	817300-05-3
817300-06-4	817300-07-5	817300-08-6	817300-09-7	817300-10-0
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817300-21-3	817300-22-4	817300-23-5	817300-24-6	817300-25-7
817300-26-8	817300-27-9	817300-28-0	817300-29-1	817300-30-4
817300-31-5	817300-32-6	817300-33-7	817300-34-8	817300-35-9
817300-36-0	817300-37-1	817300-38-2	817300-39-3	817300-40-6
817300-41-7	817300-42-8	817300-43-9	817300-44-0	817300-45-1
817300-46-2	817300-47-3	817300-48-4	817300-49-5	817300-50-8
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817300-61-1	817300-62-2	817300-63-3	817300-64-4	817300-65-5
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817300-71-3	817300-72-4	817300-73-5	817300-74-6	817300-75-7

817300-76-8	817300-77-9	817300-78-0	817300-79-1	817300-80-4
817300-81-5	817300-82-6	817300-83-7	817300-84-8	817300-85-9
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817300-91-7	817300-92-8	817300-93-9	817300-94-0	817300-95-1
817300-96-2	817300-97-3	817300-98-4	817300-99-5	817301-00-1
817301-01-2	817301-02-3	817301-03-4	817301-04-5	817301-05-6
817301-06-7	817301-07-8	817301-08-9	817301-09-0	817301-10-3
817301-11-4	817301-12-5	817301-13-6	817301-14-7	817301-15-8
817301-16-9	817301-17-0	817301-18-1	817301-19-2	817301-20-5
817301-21-6	817301-22-7	817301-23-8	817301-24-9	817301-25-0
817301-26-1	817301-27-2	817301-28-3	817301-29-4	817301-30-7
817301-31-8	817301-32-9	817301-33-0	817301-34-1	817301-35-2
817301-36-3	817301-37-4	817301-38-5	817301-39-6	817301-40-9
817301-41-0	817301-42-1	817301-43-2	817301-44-3	817301-45-4
817301-46-5	817301-47-6	817301-48-7	817301-49-8	817301-50-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817301-51-2	817301-52-3	817301-53-4	817301-54-5	817301-55-6
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	817301-61-4	817301-62-5	817301-63-6	817301-64-7	817301-65-8
	817301-66-9	817301-67-0	817301-68-1	817301-69-2	817301-70-5
	817301-71-6	817301-72-7	817301-73-8	817301-74-9	817301-75-0
	817301-76-1	817301-77-2	817301-78-3	817301-79-4	817301-80-7
	817301-81-8	817301-82-9	817301-83-0	817301-84-1	817301-85-2
	817301-86-3	817301-87-4	817301-88-5	817301-89-6	817301-90-9
	817301-91-0	817301-92-1	817301-93-2	817301-94-3	817301-95-4
	817301-96-5	817301-97-6	817301-98-7	817301-99-8	817302-00-4
	817302-01-5	817302-02-6	817302-03-7	817302-04-8	817302-05-9
	817302-06-0	817302-07-1	817302-08-2	817302-09-3	817302-10-6
	817302-11-7	817302-12-8	817302-13-9	817302-14-0	817302-15-1
	817302-16-2	817302-17-3	817302-18-4	817302-19-5	817302-20-8
	817302-21-9	817302-22-0	817302-23-1	817302-24-2	817302-25-3
	817302-26-4	817302-27-5	817302-28-6	817302-29-7	817302-30-0
	817302-31-1	817302-32-2	817302-33-3	817302-34-4	817302-35-5
	817302-36-6	817302-37-7	817302-38-8	817302-39-9	817302-40-2
	817302-41-3	817302-42-4	817302-43-5	817302-44-6	817302-45-7
	817302-46-8	817302-47-9	817302-48-0	817302-49-1	817302-50-4
	817302-51-5	817302-52-6	817302-53-7	817302-54-8	817302-55-9
	817302-56-0	817302-57-1	817302-58-2	817302-59-3	817302-60-6
	817302-61-7	817302-62-8	817302-63-9	817302-64-0	817302-65-1
	817302-66-2	817302-67-3	817302-68-4	817302-69-5	817302-70-8
	817302-71-9	817302-72-0	817302-73-1	817302-74-2	817302-75-3
	817302-76-4	817302-77-5	817302-78-6	817302-79-7	817302-80-0
	817302-81-1	817302-82-2	817302-83-3	817302-84-4	817302-85-5
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	817302-91-3	817302-92-4	817302-93-5	817302-94-6	817302-95-7
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	817303-16-5	817303-17-6	817303-18-7	817303-19-8	817303-20-1
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	817303-26-7	817303-27-8	817303-28-9	817303-29-0	817303-30-3
	817303-31-4	817303-32-5	817303-33-6	817303-34-7	817303-35-8
	817303-36-9	817303-37-0	817303-38-1	817303-39-2	817303-40-5
	817303-41-6	817303-42-7	817303-43-8	817303-44-9	817303-45-0
	817303-46-1	817303-47-2	817303-48-3	817303-49-4	817303-50-7
	817303-51-8	817303-52-9	817303-53-0	817303-54-1	817303-55-2
	817303-56-3	817303-57-4	817303-58-5	817303-59-6	817303-60-9
	817303-61-0	817303-62-1	817303-63-2	817303-64-3	817303-65-4

817303-66-5 817303-67-6 817303-68-7 817303-69-8 817303-70-1
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT 817303-86-9 817303-87-0 817303-88-1 817303-89-2 817303-90-5
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; Myxococcus xanthus genome and proteome sequences)

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 817306-36-8 817306-37-9 817306-38-0 817306-39-1 817306-40-4

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817306-46-0	817306-47-1	817306-48-2	817306-49-3	817306-50-6
817306-51-7	817306-52-8	817306-53-9	817306-54-0	817306-55-1
817306-56-2	817306-57-3	817306-58-4	817306-59-5	817306-60-8
817306-61-9	817306-62-0	817306-63-1	817306-64-2	817306-65-3
817306-66-4	817306-67-5	817306-68-6	817306-69-7	817306-70-0
817306-71-1	817306-72-2	817306-73-3	817306-74-4	817306-75-5
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817306-81-3	817306-82-4	817306-83-5	817306-84-6	817306-85-7
817306-86-8	817306-87-9	817306-88-0	817306-89-1	817306-90-4
817306-91-5	817306-92-6	817306-93-7	817306-94-8	817306-95-9
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817307-31-6	817307-32-7	817307-33-8	817307-34-9	817307-35-0
817307-36-1	817307-37-2	817307-38-3	817307-39-4	817307-40-7
817307-41-8	817307-42-9	817307-43-0	817307-44-1	817307-45-2
817307-46-3	817307-47-4	817307-48-5	817307-49-6	817307-50-9
817307-51-0	817307-52-1	817307-53-2	817307-54-3	817307-55-4
817307-56-5	817307-57-6	817307-58-7	817307-59-8	817307-60-1
817307-61-2	817307-62-3	817307-63-4	817307-64-5	817307-65-6
817307-66-7	817307-67-8	817307-68-9	817307-69-0	817307-70-3
817307-71-4	817307-72-5	817307-73-6	817307-74-7	817307-75-8
817307-76-9	817307-77-0	817307-78-1	817307-79-2	817307-80-5
817307-81-6	817307-82-7	817307-83-8	817307-84-9	817307-85-0
817307-86-1	817307-87-2	817307-88-3	817307-89-4	817307-90-7
817307-91-8	817307-92-9	817307-93-0	817307-94-1	817307-95-2
817307-96-3	817307-97-4	817307-98-5	817307-99-6	817308-00-2
817308-01-3	817308-02-4	817308-03-5	817308-04-6	817308-05-7
817308-06-8	817308-07-9	817308-08-0	817308-09-1	817308-10-4
817308-11-5	817308-12-6	817308-13-7	817308-14-8	817308-15-9
817308-16-0	817308-17-1	817308-18-2	817308-19-3	817308-20-6
817308-21-7	817308-22-8	817308-23-9	817308-24-0	817308-25-1
817308-26-2	817308-27-3	817308-28-4	817308-29-5	817308-30-8
817308-31-9	817308-32-0	817308-33-1	817308-34-2	817308-35-3
817308-36-4	817308-37-5	817308-38-6	817308-39-7	817308-40-0
817308-41-1	817308-42-2	817308-43-3	817308-44-4	817308-45-5
817308-46-6	817308-47-7	817308-48-8	817308-49-9	817308-50-2
817308-51-3	817308-52-4	817308-53-5	817308-54-6	817308-55-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817308-56-8	817308-57-9	817308-58-0	817308-59-1	817308-60-4
	817308-61-5	817308-62-6	817308-63-7	817308-64-8	817308-65-9
	817308-66-0	817308-67-1	817308-68-2	817308-69-3	817308-70-6
	817308-71-7	817308-72-8	817308-73-9	817308-74-0	817308-75-1
	817308-76-2	817308-77-3	817308-78-4	817308-79-5	817308-80-8
	817308-81-9	817308-82-0	817308-83-1	817308-84-2	817308-85-3
	817308-86-4	817308-87-5	817308-88-6	817308-89-7	817308-90-0
	817308-91-1	817308-92-2	817308-93-3	817308-94-4	817308-95-5
	817308-96-6	817308-97-7	817308-98-8	817308-99-9	817309-00-5
	817309-01-6	817309-02-7	817309-03-8	817309-04-9	817309-05-0
	817309-06-1	817309-07-2	817309-08-3	817309-09-4	817309-10-7
	817309-11-8	817309-12-9	817309-13-0	817309-14-1	817309-15-2
	817309-16-3	817309-17-4	817309-18-5	817309-19-6	817309-20-9
	817309-21-0	817309-22-1	817309-23-2	817309-24-3	817309-25-4
	817309-26-5	817309-27-6	817309-28-7	817309-29-8	817309-30-1

817309-31-2	817309-32-3	817309-33-4	817309-34-5	817309-35-6
817309-36-7	817309-37-8	817309-38-9	817309-39-0	817309-40-3
817309-41-4	817309-42-5	817309-43-6	817309-44-7	817309-45-8
817309-46-9	817309-47-0	817309-48-1	817309-49-2	817309-50-5
817309-51-6	817309-52-7	817309-53-8	817309-54-9	817309-55-0
817309-56-1	817309-57-2	817309-58-3	817309-59-4	817309-60-7
817309-61-8	817309-62-9	817309-63-0	817309-64-1	817309-65-2
817309-66-3	817309-67-4	817309-68-5	817309-69-6	817309-70-9
817309-71-0	817309-72-1	817309-73-2	817309-74-3	817309-75-4
817309-76-5	817309-77-6	817309-78-7	817309-79-8	817309-80-1
817309-81-2	817309-82-3	817309-83-4	817309-84-5	817309-85-6
817309-86-7	817309-87-8	817309-88-9	817309-89-0	817309-90-3
817309-91-4	817309-92-5	817309-93-6	817309-94-7	817309-95-8
817309-96-9	817309-97-0	817309-98-1	817309-99-2	817310-00-2
817310-01-3	817310-02-4	817310-03-5	817310-04-6	817310-05-7
817310-06-8	817310-07-9	817310-08-0	817310-09-1	817310-10-4
817310-11-5	817310-12-6	817310-13-7	817310-14-8	817310-15-9
817310-16-0	817310-17-1	817310-18-2	817310-19-3	817310-20-6
817310-21-7	817310-22-8	817310-23-9	817310-24-0	817310-25-1
817310-26-2	817310-27-3	817310-28-4	817310-29-5	817310-30-8
817310-31-9	817310-32-0	817310-33-1	817310-34-2	817310-35-3
817310-36-4	817310-37-5	817310-38-6	817310-39-7	817310-40-0
817310-41-1	817310-42-2	817310-43-3	817310-44-4	817310-45-5
817310-46-6	817310-47-7	817310-48-8	817310-49-9	817310-50-2
817310-51-3	817310-52-4	817310-53-5	817310-54-6	817310-55-7
817310-56-8	817310-57-9	817310-58-0	817310-59-1	817310-60-4
817310-61-5	817310-62-6	817310-63-7	817310-64-8	817310-65-9
817310-66-0	817310-67-1	817310-68-2	817310-69-3	817310-70-6
817310-71-7	817310-72-8	817310-73-9	817310-74-0	817310-75-1
817310-76-2	817310-77-3	817310-78-4	817310-79-5	817310-80-8
817310-81-9	817310-82-0	817310-83-1	817310-84-2	817310-85-3
817310-86-4	817310-87-5	817310-88-6	817310-89-7	817310-90-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT 817310-91-1	817310-92-2	817310-93-3	817310-94-4	817310-95-5
817310-96-6	817310-97-7	817310-98-8	817310-99-9	817311-00-5
817311-01-6	817311-02-7	817311-03-8	817311-04-9	817311-05-0
817311-06-1	817311-07-2	817311-08-3	817311-09-4	817311-10-7
817311-11-8	817311-12-9	817311-13-0	817311-14-1	817311-15-2
817311-16-3	817311-17-4	817311-18-5	817311-19-6	817311-20-9
817311-21-0	817311-22-1	817311-23-2	817311-24-3	817311-25-4
817311-26-5	817311-27-6	817311-28-7	817311-29-8	817311-30-1
817311-31-2	817311-32-3	817311-33-4	817311-34-5	817311-35-6
817311-36-7	817311-37-8	817311-38-9	817311-39-0	817311-40-3
817311-41-4	817311-42-5	817311-43-6	817311-44-7	817311-45-8
817311-46-9	817311-47-0	817311-48-1	817311-49-2	817311-50-5
817311-51-6	817311-52-7	817311-53-8	817311-54-9	817311-55-0
817311-56-1	817311-57-2	817311-58-3	817311-59-4	817311-60-7
817311-61-8	817311-62-9	817311-63-0	817311-64-1	817311-65-2
817311-66-3	817311-67-4	817311-68-5	817311-69-6	817311-70-9
817311-71-0	817311-72-1	817311-73-2	817311-74-3	817311-75-4
817311-76-5	817311-77-6	817311-78-7	817311-79-8	817311-80-1
817311-81-2	817311-82-3	817311-83-4	817311-84-5	817311-85-6
817311-86-7	817311-87-8	817311-88-9	817311-89-0	817311-90-3
817311-91-4	817311-92-5	817311-93-6	817311-94-7	817311-95-8
817311-96-9	817311-97-0	817311-98-1	817311-99-2	817312-00-8
817312-01-9	817312-02-0	817312-03-1	817312-04-2	817312-05-3
817312-06-4	817312-07-5	817312-08-6	817312-09-7	817312-10-0
817312-11-1	817312-12-2	817312-13-3	817312-14-4	817312-15-5
817312-16-6	817312-17-7	817312-18-8	817312-19-9	817312-20-2

817312-21-3	817312-22-4	817312-23-5	817312-24-6	817312-25-7
817312-26-8	817312-27-9	817312-28-0	817312-29-1	817312-30-4
817312-31-5	817312-32-6	817312-33-7	817312-34-8	817312-35-9
817312-36-0	817312-37-1	817312-38-2	817312-39-3	817312-40-6
817312-41-7	817312-42-8	817312-43-9	817312-44-0	817312-45-1
817312-46-2	817312-47-3	817312-48-4	817312-49-5	817312-50-8
817312-51-9	817312-52-0	817312-53-1	817312-54-2	817312-55-3
817312-56-4	817312-57-5	817312-58-6	817312-59-7	817312-60-0
817312-61-1	817312-62-2	817312-63-3	817312-64-4	817312-65-5
817312-66-6	817312-67-7	817312-68-8	817312-69-9	817312-70-2
817312-71-3	817312-72-4	817312-73-5	817312-74-6	817312-75-7
817312-76-8	817312-77-9	817312-78-0	817312-79-1	817312-80-4
817312-81-5	817312-82-6	817312-83-7	817312-84-8	817312-85-9
817312-86-0	817312-87-1	817312-88-2	817312-89-3	817312-90-6
817312-91-7	817312-92-8	817312-93-9	817312-94-0	817312-95-1
817312-96-2	817312-97-3	817312-98-4	817312-99-5	817313-00-1
817313-01-2	817313-02-3	817313-03-4	817313-04-5	817313-05-6
817313-06-7	817313-07-8	817313-08-9	817313-09-0	817313-10-3
817313-11-4	817313-12-5	817313-13-6	817313-14-7	817313-15-8
817313-16-9	817313-17-0	817313-18-1	817313-19-2	817313-20-5
817313-21-6	817313-22-7	817313-23-8	817313-24-9	817313-25-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817313-26-1	817313-27-2	817313-28-3	817313-29-4	817313-30-7
	817313-31-8	817313-32-9	817313-33-0	817313-34-1	817313-35-2
	817313-36-3	817313-37-4	817313-38-5	817313-39-6	817313-40-9
	817313-41-0	817313-42-1	817313-43-2	817313-44-3	817313-45-4
	817313-46-5	817313-47-6	817313-48-7	817313-49-8	817313-50-1
	817313-51-2	817313-52-3	817313-53-4	817313-54-5	817313-55-6
	817313-56-7	817313-57-8	817313-58-9	817313-59-0	817313-60-3
	817313-61-4	817313-62-5	817313-63-6	817313-64-7	817313-65-8
	817313-66-9	817313-67-0	817313-68-1	817313-69-2	817313-70-5
	817313-71-6	817313-72-7	817313-73-8	817313-74-9	817313-75-0
	817313-76-1	817313-77-2	817313-78-3	817313-79-4	817313-80-7
	817313-81-8	817313-82-9	817313-83-0	817313-84-1	817313-85-2
	817313-86-3	817313-87-4	817313-88-5	817313-89-6	817313-90-9
	817313-91-0	817313-92-1	817313-93-2	817313-94-3	817313-95-4
	817313-96-5	817313-97-6	817313-98-7	817313-99-8	817314-00-4
	817314-01-5	817314-02-6	817314-03-7	817314-04-8	817314-05-9
	817314-06-0	817314-07-1	817314-08-2	817314-09-3	817314-10-6
	817314-11-7	817314-12-8	817314-13-9	817314-14-0	817314-15-1
	817314-16-2	817314-17-3	817314-18-4	817314-19-5	817314-20-8
	817314-21-9	817314-22-0	817314-23-1	817314-24-2	817314-25-3
	817314-26-4	817314-27-5	817314-28-6	817314-29-7	817314-30-0
	817314-31-1	817314-32-2	817314-33-3	817314-34-4	817314-35-5
	817314-36-6	817314-37-7	817314-38-8	817314-39-9	817314-40-2
	817314-41-3	817314-42-4	817314-43-5	817314-44-6	817314-45-7
	817314-46-8	817314-47-9	817314-48-0	817314-49-1	817314-50-4
	817314-51-5	817314-52-6	817314-53-7	817314-54-8	817314-55-9
	817314-56-0	817314-57-1	817314-58-2	817314-59-3	817314-60-6
	817314-61-7	817314-62-8	817314-63-9	817314-64-0	817314-65-1
	817314-66-2	817314-67-3	817314-68-4	817314-69-5	817314-70-8
	817314-71-9	817314-72-0	817314-73-1	817314-74-2	817314-75-3
	817314-76-4	817314-77-5	817314-78-6	817314-79-7	817314-80-0
	817314-81-1	817314-82-2	817314-83-3	817314-84-4	817314-85-5
	817314-86-6	817314-87-7	817314-88-8	817314-89-9	817314-90-2
	817314-91-3	817314-92-4	817314-93-5	817314-94-6	817314-95-7
	817314-96-8	817314-97-9	817314-98-0	817314-99-1	817315-00-7
	817315-01-8	817315-02-9	817315-03-0	817315-04-1	817315-05-2
	817315-06-3	817315-07-4	817315-08-5	817315-09-6	817315-10-9

817315-11-0	817315-12-1	817315-13-2	817315-14-3	817315-15-4
817315-16-5	817315-17-6	817315-18-7	817315-19-8	817315-20-1
817315-21-2	817315-22-3	817315-23-4	817315-24-5	817315-25-6
817315-26-7	817315-27-8	817315-28-9	817315-29-0	817315-30-3
817315-31-4	817315-32-5	817315-33-6	817315-34-7	817315-35-8
817315-36-9	817315-37-0	817315-38-1	817315-39-2	817315-40-5
817315-41-6	817315-42-7	817315-43-8	817315-44-9	817315-45-0
817315-46-1	817315-47-2	817315-48-3	817315-49-4	817315-50-7
817315-51-8	817315-52-9	817315-53-0	817315-54-1	817315-55-2
817315-56-3	817315-57-4	817315-58-5	817315-59-6	817315-60-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817315-61-0	817315-62-1	817315-63-2	817315-64-3	817315-65-4
	817315-66-5	817315-67-6	817315-68-7	817315-69-8	817315-70-1
	817315-71-2	817315-72-3	817315-73-4	817315-74-5	817315-75-6
	817315-76-7	817315-77-8	817315-78-9	817315-79-0	817315-80-3
	817315-81-4	817315-82-5	817315-83-6	817315-84-7	817315-85-8
	817315-86-9	817315-87-0	817315-88-1	817315-89-2	817315-90-5
	817315-91-6	817315-92-7	817315-93-8	817315-94-9	817315-95-0
	817315-96-1	817315-97-2	817315-98-3	817315-99-4	817316-00-0
	817316-01-1	817316-02-2	817316-03-3	817316-04-4	817316-05-5
	817316-06-6	817316-07-7	817316-08-8	817316-09-9	817316-10-2
	817316-11-3	817316-12-4	817316-13-5	817316-14-6	817316-15-7
	817316-16-8	817316-17-9	817316-18-0	817316-19-1	817316-20-4
	817316-21-5	817316-22-6	817316-23-7	817316-24-8	817316-25-9
	817316-26-0	817316-27-1	817316-28-2	817316-29-3	817316-30-6
	817316-31-7	817316-32-8	817316-33-9	817316-34-0	817316-35-1
	817316-36-2	817316-37-3	817316-38-4	817316-39-5	817316-40-8
	817316-41-9	817316-42-0	817316-43-1	817316-44-2	817316-45-3
	817316-46-4	817316-47-5	817316-48-6	817316-49-7	817316-50-0
	817316-51-1	817316-52-2	817316-53-3	817316-54-4	817316-55-5
	817316-56-6	817316-57-7	817316-58-8	817316-59-9	817316-60-2
	817316-61-3	817316-62-4	817316-63-5	817316-64-6	817316-65-7
	817316-66-8	817316-67-9	817316-68-0	817316-69-1	817316-70-4
	817316-71-5	817316-72-6	817316-73-7	817316-74-8	817316-75-9
	817316-76-0	817316-77-1	817316-78-2	817316-79-3	817316-80-6
	817316-81-7	817316-82-8	817316-83-9	817316-84-0	817316-85-1
	817316-86-2	817316-87-3	817316-88-4	817316-89-5	817316-90-8
	817316-91-9	817316-92-0	817316-93-1	817316-94-2	817316-95-3
	817316-96-4	817316-97-5	817316-98-6	817316-99-7	817317-00-3
	817317-01-4	817317-02-5	817317-03-6	817317-04-7	817317-05-8
	817317-06-9	817317-07-0	817317-08-1	817317-09-2	817317-10-5
	817317-11-6	817317-12-7	817317-13-8	817317-14-9	817317-15-0
	817317-16-1	817317-17-2	817317-18-3	817317-19-4	817317-20-7
	817317-21-8	817317-22-9	817317-23-0	817317-24-1	817317-25-2
	817317-26-3	817317-27-4	817317-28-5	817317-29-6	817317-30-9
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	817317-36-5	817317-37-6	817317-38-7	817317-39-8	817317-40-1
	817317-41-2	817317-42-3	817317-43-4	817317-44-5	817317-45-6
	817317-46-7	817317-47-8	817317-48-9	817317-49-0	817317-50-3
	817317-51-4	817317-52-5	817317-53-6	817317-54-7	817317-55-8
	817317-56-9	817317-57-0	817317-58-1	817317-59-2	817317-60-5
	817317-61-6	817317-62-7	817317-63-8	817317-64-9	817317-65-0
	817317-66-1	817317-67-2	817317-68-3	817317-69-4	817317-70-7
	817317-71-8	817317-72-9	817317-73-0	817317-74-1	817317-75-2
	817317-76-3	817317-77-4	817317-78-5	817317-79-6	817317-80-9
	817317-81-0	817317-82-1	817317-83-2	817317-84-3	817317-85-4
	817317-86-5	817317-87-6	817317-88-7	817317-89-8	817317-90-1
	817317-91-2	817317-92-3	817317-93-4	817317-94-5	817317-95-6

RL: BSU (Biological study, unclassified); BUU (Biological use,

unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817317-96-7	817317-97-8	817317-98-9	817317-99-0	817318-00-6
	817318-01-7	817318-02-8	817318-03-9	817318-04-0	817318-05-1
	817318-06-2	817318-07-3	817318-08-4	817318-09-5	817318-10-8
	817318-11-9	817318-12-0	817318-13-1	817318-14-2	817318-15-3
	817318-16-4	817318-17-5	817318-18-6	817318-19-7	817318-20-0
	817318-21-1	817318-22-2	817318-23-3	817318-24-4	817318-25-5
	817318-26-6	817318-27-7	817318-28-8	817318-29-9	817318-30-2
	817318-31-3	817318-32-4	817318-33-5	817318-34-6	817318-35-7
	817318-36-8	817318-37-9	817318-38-0	817318-39-1	817318-40-4
	817318-41-5	817318-42-6	817318-43-7	817318-44-8	817318-45-9
	817318-46-0	817318-47-1	817318-48-2	817318-49-3	817318-50-6
	817318-51-7	817318-52-8	817318-53-9	817318-54-0	817318-55-1
	817318-56-2	817318-57-3	817318-58-4	817318-59-5	817318-60-8
	817318-61-9	817318-62-0	817318-63-1	817318-64-2	817318-65-3
	817318-66-4	817318-67-5	817318-68-6	817318-69-7	817318-70-0
	817318-71-1	817318-72-2	817318-73-3	817318-74-4	817318-75-5
	817318-76-6	817318-77-7	817318-78-8	817318-79-9	817318-80-2
	817318-81-3	817318-82-4	817318-83-5	817318-84-6	817318-85-7
	817318-86-8	817318-87-9	817318-88-0	817318-89-1	817318-90-4
	817318-91-5	817318-92-6	817318-93-7	817318-94-8	817318-95-9
	817318-96-0	817318-97-1	817318-98-2	817318-99-3	817319-00-9
	817319-01-0	817319-02-1	817319-03-2	817319-04-3	817319-05-4
	817319-06-5	817319-07-6	817319-08-7	817319-09-8	817319-10-1
	817319-11-2	817319-12-3	817319-13-4	817319-14-5	817319-15-6
	817319-16-7	817319-17-8	817319-18-9	817319-19-0	817319-20-3
	817319-21-4	817319-22-5	817319-23-6	817319-24-7	817319-25-8
	817319-26-9	817319-27-0	817319-28-1	817319-29-2	817319-30-5
	817319-31-6	817319-32-7	817319-33-8	817319-34-9	817319-35-0
	817319-36-1	817319-37-2	817319-38-3	817319-39-4	817319-40-7
	817319-41-8	817319-42-9	817319-43-0	817319-44-1	817319-45-2
	817319-46-3	817319-47-4	817319-48-5	817319-49-6	817319-50-9
	817319-51-0	817319-52-1	817319-53-2	817319-54-3	817319-55-4
	817319-56-5	817319-57-6	817319-58-7	817319-59-8	817319-60-1
	817319-61-2	817319-62-3	817319-63-4	817319-64-5	817319-65-6
	817319-66-7	817319-67-8	817319-68-9	817319-69-0	817319-70-3
	817319-71-4	817319-72-5	817319-73-6	817319-74-7	817319-75-8
	817319-76-9	817319-77-0	817319-78-1	817319-79-2	817319-80-5
	817319-81-6	817319-82-7	817319-83-8	817319-84-9	817319-85-0
	817319-86-1	817319-87-2	817319-88-3	817319-89-4	817319-90-7
	817319-91-8	817319-92-9	817319-93-0	817319-94-1	817319-95-2
	817319-96-3	817319-97-4	817319-98-5	817319-99-6	817320-00-6
	817320-01-7	817320-02-8	817320-03-9	817320-04-0	817320-05-1
	817320-06-2	817320-07-3	817320-08-4	817320-09-5	817320-10-8
	817320-11-9	817320-12-0	817320-13-1	817320-14-2	817320-15-3
	817320-16-4	817320-17-5	817320-18-6	817320-19-7	817320-20-0
	817320-21-1	817320-22-2	817320-23-3	817320-24-4	817320-25-5
	817320-26-6	817320-27-7	817320-28-8	817320-29-9	817320-30-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817320-31-3	817320-32-4	817320-33-5	817320-34-6	817320-35-7
	817320-36-8	817320-37-9	817320-38-0	817320-39-1	817320-40-4
	817320-41-5	817320-42-6	817320-43-7	817320-44-8	817320-45-9
	817320-46-0	817320-47-1	817320-48-2	817320-49-3	817320-50-6
	817320-51-7	817320-52-8	817320-53-9	817320-54-0	817320-55-1
	817320-56-2	817320-57-3	817320-58-4	817320-59-5	817320-60-8
	817320-61-9	817320-62-0	817320-63-1	817320-64-2	817320-65-3
	817320-66-4	817320-67-5	817320-68-6	817320-69-7	817320-70-0
	817320-71-1	817320-72-2	817320-73-3	817320-74-4	817320-75-5

817320-76-6	817320-77-7	817320-78-8	817320-79-9	817320-80-2
817320-81-3	817320-82-4	817320-83-5	817320-84-6	817320-85-7
817320-86-8	817320-87-9	817320-88-0	817320-89-1	817320-90-4
817320-91-5	817320-92-6	817320-93-7	817320-94-8	817320-95-9
817320-96-0	817320-97-1	817320-98-2	817320-99-3	817321-00-9
817321-01-0	817321-02-1	817321-03-2	817321-04-3	817321-05-4
817321-06-5	817321-07-6	817321-08-7	817321-09-8	817321-10-1
817321-11-2	817321-12-3	817321-13-4	817321-14-5	817321-15-6
817321-16-7	817321-17-8	817321-18-9	817321-19-0	817321-20-3
817321-21-4	817321-22-5	817321-23-6	817321-24-7	817321-25-8
817321-26-9	817321-27-0	817321-28-1	817321-29-2	817321-30-5
817321-31-6	817321-32-7	817321-33-8	817321-34-9	817321-35-0
817321-36-1	817321-37-2	817321-38-3	817321-39-4	817321-40-7
817321-41-8	817321-42-9	817321-43-0	817321-44-1	817321-45-2
817321-46-3	817321-47-4	817321-48-5	817321-49-6	817321-50-9
817321-51-0	817321-52-1	817321-53-2	817321-54-3	817321-55-4
817321-56-5	817321-57-6	817321-58-7	817321-59-8	817321-60-1
817321-61-2	817321-62-3	817321-63-4	817321-64-5	817321-65-6
817321-66-7	817321-67-8	817321-68-9	817321-69-0	817321-70-3
817321-71-4	817321-72-5	817321-73-6	817321-74-7	817321-75-8
817321-76-9	817321-77-0	817321-78-1	817321-79-2	817321-80-5
817321-81-6	817321-82-7	817321-83-8	817321-84-9	817321-85-0
817321-86-1	817321-87-2	817321-88-3	817321-89-4	817321-90-7
817321-91-8	817321-92-9	817321-93-0	817321-94-1	817321-95-2
817321-96-3	817321-97-4	817321-98-5	817321-99-6	817322-00-2
817322-01-3	817322-02-4	817322-03-5	817322-04-6	817322-05-7
817322-06-8	817322-07-9	817322-08-0	817322-09-1	817322-10-4
817322-11-5	817322-12-6	817322-13-7	817322-14-8	817322-15-9
817322-16-0	817322-17-1	817322-18-2	817322-19-3	817322-20-6
817322-21-7	817322-22-8	817322-23-9	817322-24-0	817322-25-1
817322-26-2	817322-27-3	817322-28-4	817322-29-5	817322-30-8
817322-31-9	817322-32-0	817322-33-1	817322-34-2	817322-35-3
817322-36-4	817322-37-5	817322-38-6	817322-39-7	817322-40-0
817322-41-1	817322-42-2	817322-43-3	817322-44-4	817322-45-5
817322-46-6	817322-47-7	817322-48-8	817322-49-9	817322-50-2
817322-51-3	817322-52-4	817322-53-5	817322-54-6	817322-55-7
817322-56-8	817322-57-9	817322-58-0	817322-59-1	817322-60-4
817322-61-5	817322-62-6	817322-63-7	817322-64-8	817322-65-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT 817322-66-0	817322-67-1	817322-68-2	817322-69-3	817322-70-6
817322-71-7	817322-72-8	817322-73-9	817322-74-0	817322-75-1
817322-76-2	817322-77-3	817322-78-4	817322-79-5	817322-80-8
817322-81-9	817322-82-0	817322-83-1	817322-84-2	817322-85-3
817322-86-4	817322-87-5	817322-88-6	817322-89-7	817322-90-0
817322-91-1	817322-92-2	817322-93-3	817322-94-4	817322-95-5
817322-96-6	817322-97-7	817322-98-8	817322-99-9	817323-00-5
817323-01-6	817323-02-7	817323-03-8	817323-04-9	817323-05-0
817323-06-1	817323-07-2	817323-08-3	817323-09-4	817323-10-7
817323-11-8	817323-12-9	817323-13-0	817323-14-1	817323-15-2
817323-16-3	817323-17-4	817323-18-5	817323-19-6	817323-20-9
817323-21-0	817323-22-1	817323-23-2	817323-24-3	817323-25-4
817323-26-5	817323-27-6	817323-28-7	817323-29-8	817323-30-1
817323-31-2	817323-32-3	817323-33-4	817323-34-5	817323-35-6
817323-36-7	817323-37-8	817323-38-9	817323-39-0	817323-40-3
817323-41-4	817323-42-5	817323-43-6	817323-44-7	817323-45-8
817323-46-9	817323-47-0	817323-48-1	817323-49-2	817323-50-5
817323-51-6	817323-52-7	817323-53-8	817323-54-9	817323-55-0
817323-56-1	817323-57-2	817323-58-3	817323-59-4	817323-60-7
817323-61-8	817323-62-9	817323-63-0	817323-64-1	817323-65-2

817323-66-3	817323-67-4	817323-68-5	817323-69-6	817323-70-9
817323-71-0	817323-72-1	817323-73-2	817323-74-3	817323-75-4
817323-76-5	817323-77-6	817323-78-7	817323-79-8	817323-80-1
817323-81-2	817323-82-3	817323-83-4	817323-84-5	817323-85-6
817323-86-7	817323-87-8	817323-88-9	817323-89-0	817323-90-3
817323-91-4	817323-92-5	817323-93-6	817323-94-7	817323-95-8
817323-96-9	817323-97-0	817323-98-1	817323-99-2	817324-00-8
817324-01-9	817324-02-0	817324-03-1	817324-04-2	817324-05-3
817324-06-4	817324-07-5	817324-08-6	817324-09-7	817324-10-0
817324-11-1	817324-12-2	817324-13-3	817324-14-4	817324-15-5
817324-16-6	817324-17-7	817324-18-8	817324-19-9	817324-20-2
817324-21-3	817324-22-4	817324-23-5	817324-24-6	817324-25-7
817324-26-8	817324-27-9	817324-28-0	817324-29-1	817324-30-4
817324-31-5	817324-32-6	817324-33-7	817324-34-8	817324-35-9
817324-36-0	817324-37-1	817324-38-2	817324-39-3	817324-40-6
817324-41-7	817324-42-8	817324-43-9	817324-44-0	817324-45-1
817324-46-2	817324-47-3	817324-48-4	817324-49-5	817324-50-8
817324-51-9	817324-52-0	817324-53-1	817324-54-2	817324-55-3
817324-56-4	817324-57-5	817324-58-6	817324-59-7	817324-60-0
817324-61-1	817324-62-2	817324-63-3	817324-64-4	817324-65-5
817324-66-6	817324-67-7	817324-68-8	817324-69-9	817324-70-2
817324-71-3	817324-72-4	817324-73-5	817324-74-6	817324-75-7
817324-76-8	817324-77-9	817324-78-0	817324-79-1	817324-80-4
817324-81-5	817324-82-6	817324-83-7	817324-84-8	817324-85-9
817324-86-0	817324-87-1	817324-88-2	817324-89-3	817324-90-6
817324-91-7	817324-92-8	817324-93-9	817324-94-0	817324-95-1
817324-96-2	817324-97-3	817324-98-4	817324-99-5	817325-00-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817325-01-2	817325-02-3	817325-03-4	817325-04-5	817325-05-6
	817325-06-7	817325-07-8	817325-08-9	817325-09-0	817325-10-3
	817325-11-4	817325-12-5	817325-13-6	817325-14-7	817325-15-8
	817325-16-9	817325-17-0	817325-18-1	817325-19-2	817325-20-5
	817325-21-6	817325-22-7	817325-23-8	817325-24-9	817325-25-0
	817325-26-1	817325-27-2	817325-28-3	817325-29-4	817325-30-7
	817325-31-8	817325-32-9	817325-33-0	817325-34-1	817325-35-2
	817325-36-3	817325-37-4	817325-38-5	817325-39-6	817325-40-9
	817325-41-0	817325-42-1	817325-43-2	817325-44-3	817325-45-4
	817325-46-5	817325-47-6	817325-48-7	817325-49-8	817325-50-1
	817325-51-2	817325-52-3	817325-53-4	817325-54-5	817325-55-6
	817325-56-7	817325-57-8	817325-58-9	817325-59-0	817325-60-3
	817325-61-4	817325-62-5	817325-63-6	817325-64-7	817325-65-8
	817325-66-9	817325-67-0	817325-68-1	817325-69-2	817325-70-5
	817325-71-6	817325-72-7	817325-73-8	817325-74-9	817325-75-0
	817325-76-1	817325-77-2	817325-78-3	817325-79-4	817325-80-7
	817325-81-8	817325-82-9	817325-83-0	817325-84-1	817325-85-2
	817325-86-3	817325-87-4	817325-88-5	817325-89-6	817325-90-9
	817325-91-0	817325-92-1	817325-93-2	817325-94-3	817325-95-4
	817325-96-5	817325-97-6	817325-98-7	817325-99-8	817326-00-4
	817326-01-5	817326-02-6	817326-03-7	817326-04-8	817326-05-9
	817326-06-0	817326-07-1	817326-08-2	817326-09-3	817326-10-6
	817326-11-7	817326-12-8	817326-13-9	817326-14-0	817326-15-1
	817326-16-2	817326-17-3	817326-18-4	817326-19-5	817326-20-8
	817326-21-9	817326-22-0	817326-23-1	817326-24-2	817326-25-3
	817326-26-4	817326-27-5	817326-28-6	817326-29-7	817326-30-0
	817326-31-1	817326-32-2	817326-33-3	817326-34-4	817326-35-5
	817326-36-6	817326-37-7	817326-38-8	817326-39-9	817326-40-2
	817326-41-3	817326-42-4	817326-43-5	817326-44-6	817326-45-7
	817326-46-8	817326-47-9	817326-48-0	817326-49-1	817326-50-4
	817326-51-5	817326-52-6	817326-53-7	817326-54-8	817326-55-9

817326-56-0	817326-57-1	817326-58-2	817326-59-3	817326-60-6
817326-61-7	817326-62-8	817326-63-9	817326-64-0	817326-65-1
817326-66-2	817326-67-3	817326-68-4	817326-69-5	817326-70-8
817326-71-9	817326-72-0	817326-73-1	817326-74-2	817326-75-3
817326-76-4	817326-77-5	817326-78-6	817326-79-7	817326-80-0
817326-81-1	817326-82-2	817326-83-3	817326-84-4	817326-85-5
817326-86-6	817326-87-7	817326-88-8	817326-89-9	817326-90-2
817326-91-3	817326-92-4	817326-93-5	817326-94-6	817326-95-7
817326-96-8	817326-97-9	817326-98-0	817326-99-1	817327-00-7
817327-01-8	817327-02-9	817327-03-0	817327-04-1	817327-05-2
817327-06-3	817327-07-4	817327-08-5	817327-09-6	817327-10-9
817327-11-0	817327-12-1	817327-13-2	817327-14-3	817327-15-4
817327-16-5	817327-17-6	817327-18-7	817327-19-8	817327-20-1
817327-21-2	817327-22-3	817327-23-4	817327-24-5	817327-25-6
817327-26-7	817327-27-8	817327-28-9	817327-29-0	817327-30-3
817327-31-4	817327-32-5	817327-33-6	817327-34-7	817327-35-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817327-36-9	817327-37-0	817327-38-1	817327-39-2	817327-40-5
	817327-41-6	817327-42-7	817327-43-8	817327-44-9	817327-45-0
	817327-46-1	817327-47-2	817327-48-3	817327-49-4	817327-50-7
	817327-51-8	817327-52-9	817327-53-0	817327-54-1	817327-55-2
	817327-56-3	817327-57-4	817327-58-5	817327-59-6	817327-60-9
	817327-61-0	817327-62-1	817327-63-2	817327-64-3	817327-65-4
	817327-66-5	817327-67-6	817327-68-7	817327-69-8	817327-70-1
	817327-71-2	817327-72-3	817327-73-4	817327-74-5	817327-75-6
	817327-76-7	817327-77-8	817327-78-9	817327-79-0	817327-80-3
	817327-81-4	817327-82-5	817327-83-6	817327-84-7	817327-85-8
	817327-86-9	817327-87-0	817327-88-1	817327-89-2	817327-90-5
	817327-91-6	817327-92-7	817327-93-8	817327-94-9	817327-95-0
	817327-96-1	817327-97-2	817327-98-3	817327-99-4	817328-00-0
	817328-01-1	817328-02-2	817328-03-3	817328-04-4	817328-05-5
	817328-06-6	817328-07-7	817328-08-8	817328-09-9	817328-10-2
	817328-11-3	817328-12-4	817328-13-5	817328-14-6	817328-15-7
	817328-16-8	817328-17-9	817328-18-0	817328-19-1	817328-20-4
	817328-21-5	817328-22-6	817328-23-7	817328-24-8	817328-25-9
	817328-26-0	817328-27-1	817328-28-2	817328-29-3	817328-30-6
	817328-31-7	817328-32-8	817328-33-9	817328-34-0	817328-35-1
	817328-36-2	817328-37-3	817328-38-4	817328-39-5	817328-40-8
	817328-41-9	817328-42-0	817328-43-1	817328-44-2	817328-45-3
	817328-46-4	817328-47-5	817328-48-6	817328-49-7	817328-50-0
	817328-51-1	817328-52-2	817328-53-3	817328-54-4	817328-55-5
	817328-56-6	817328-57-7	817328-58-8	817328-59-9	817328-60-2
	817328-61-3	817328-62-4	817328-63-5	817328-64-6	817328-65-7
	817328-66-8	817328-67-9	817328-68-0	817328-69-1	817328-70-4
	817328-71-5	817328-72-6	817328-73-7	817328-74-8	817328-75-9
	817328-76-0	817328-77-1	817328-78-2	817328-79-3	817328-80-6
	817328-81-7	817328-82-8	817328-83-9	817328-84-0	817328-85-1
	817328-86-2	817328-87-3	817328-88-4	817328-89-5	817328-90-8
	817328-91-9	817328-92-0	817328-93-1	817328-94-2	817328-95-3
	817328-96-4	817328-97-5	817328-98-6	817328-99-7	817329-00-3
	817329-01-4	817329-02-5	817329-03-6	817329-04-7	817329-05-8
	817329-06-9	817329-07-0	817329-08-1	817329-09-2	817329-10-5
	817329-11-6	817329-12-7	817329-13-8	817329-14-9	817329-15-0
	817329-16-1	817329-17-2	817329-18-3	817329-19-4	817329-20-7
	817329-21-8	817329-22-9	817329-23-0	817329-24-1	817329-25-2
	817329-26-3	817329-27-4	817329-28-5	817329-29-6	817329-30-9
	817329-31-0	817329-32-1	817329-33-2	817329-34-3	817329-35-4
	817329-36-5	817329-37-6	817329-38-7	817329-39-8	817329-40-1
	817329-41-2	817329-42-3	817329-43-4	817329-44-5	817329-45-6

817329-46-7	817329-47-8	817329-48-9	817329-49-0	817329-50-3
817329-51-4	817329-52-5	817329-53-6	817329-54-7	817329-55-8
817329-56-9	817329-57-0	817329-58-1	817329-59-2	817329-60-5
817329-61-6	817329-62-7	817329-63-8	817329-64-9	817329-65-0
817329-66-1	817329-67-2	817329-68-3	817329-69-4	817329-70-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817329-71-8	817329-72-9	817329-73-0	817329-74-1	817329-75-2
	817329-76-3	817329-77-4	817329-78-5	817329-79-6	817329-80-9
	817329-81-0	817329-82-1	817329-83-2	817329-84-3	817329-85-4
	817329-86-5	817329-87-6	817329-88-7	817329-89-8	817329-90-1
	817329-91-2	817329-92-3	817329-93-4	817329-94-5	817329-95-6
	817329-96-7	817329-97-8	817329-98-9	817329-99-0	817330-00-0
	817330-01-1	817330-02-2	817330-03-3	817330-04-4	817330-05-5
	817330-06-6	817330-07-7	817330-08-8	817330-09-9	817330-10-2
	817330-11-3	817330-12-4	817330-13-5	817330-14-6	817330-15-7
	817330-16-8	817330-17-9	817330-18-0	817330-19-1	817330-20-4
	817330-21-5	817330-22-6	817330-23-7	817330-24-8	817330-25-9
	817330-26-0	817330-27-1	817330-28-2	817330-29-3	817330-30-6
	817330-31-7	817330-32-8	817330-33-9	817330-34-0	817330-35-1
	817330-36-2	817330-37-3	817330-38-4	817330-39-5	817330-40-8
	817330-41-9	817330-42-0	817330-43-1	817330-44-2	817330-45-3
	817330-46-4	817330-47-5	817330-48-6	817330-49-7	817330-50-0
	817330-51-1	817330-52-2	817330-53-3	817330-54-4	817330-55-5
	817330-56-6	817330-57-7	817330-58-8	817330-59-9	817330-60-2
	817330-61-3	817330-62-4	817330-63-5	817330-64-6	817330-65-7
	817330-66-8	817330-67-9	817330-68-0	817330-69-1	817330-70-4
	817330-71-5	817330-72-6	817330-73-7	817330-74-8	817330-75-9
	817330-76-0	817330-77-1	817330-78-2	817330-79-3	817330-80-6
	817330-81-7	817330-82-8	817330-83-9	817330-84-0	817330-85-1
	817330-86-2	817330-87-3	817330-88-4	817330-89-5	817330-90-8
	817330-91-9	817330-92-0	817330-93-1	817330-94-2	817330-95-3
	817330-96-4	817330-97-5	817330-98-6	817330-99-7	817331-00-3
	817331-01-4	817331-02-5	817331-03-6	817331-04-7	817331-05-8
	817331-06-9	817331-07-0	817331-08-1	817331-09-2	817331-10-5
	817331-11-6	817331-12-7	817331-13-8	817331-14-9	817331-15-0
	817331-16-1	817331-17-2	817331-18-3	817331-19-4	817331-20-7
	817331-21-8	817331-22-9	817331-23-0	817331-24-1	817331-25-2
	817331-26-3	817331-27-4	817331-28-5	817331-29-6	817331-30-9
	817331-31-0	817331-32-1	817331-33-2	817331-34-3	817331-35-4
	817331-36-5	817331-37-6	817331-38-7	817331-39-8	817331-40-1
	817331-41-2	817331-42-3	817331-43-4	817331-44-5	817331-45-6
	817331-46-7	817331-47-8	817331-48-9	817331-49-0	817331-50-3
	817331-51-4	817331-52-5	817331-53-6	817331-54-7	817331-55-8
	817331-56-9	817331-57-0	817331-58-1	817331-59-2	817331-60-5
	817331-61-6	817331-62-7	817331-63-8	817331-64-9	817331-65-0
	817331-66-1	817331-67-2	817331-68-3	817331-69-4	817331-70-7
	817331-71-8	817331-72-9	817331-73-0	817331-74-1	817331-75-2
	817331-76-3	817331-77-4	817331-78-5	817331-79-6	817331-80-9
	817331-81-0	817331-82-1	817331-83-2	817331-84-3	817331-85-4
	817331-86-5	817331-87-6	817331-88-7	817331-89-8	817331-90-1
	817331-91-2	817331-92-3	817331-93-4	817331-94-5	817331-95-6
	817331-96-7	817331-97-8	817331-98-9	817331-99-0	817332-00-6
	817332-01-7	817332-02-8	817332-03-9	817332-04-0	817332-05-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817332-06-2	817332-07-3	817332-08-4	817332-09-5	817332-10-8
	817332-11-9	817332-12-0	817332-13-1	817332-14-2	817332-15-3
	817332-16-4	817332-17-5	817332-18-6	817332-19-7	817332-20-0

817332-21-1	817332-22-2	817332-23-3	817332-24-4	817332-25-5
817332-26-6	817332-27-7	817332-28-8	817332-29-9	817332-30-2
817332-31-3	817332-32-4	817332-33-5	817332-34-6	817332-35-7
817332-36-8	817332-37-9	817332-38-0	817332-39-1	817332-40-4
817332-41-5	817332-42-6	817332-43-7	817332-44-8	817332-45-9
817332-46-0	817332-47-1	817332-48-2	817332-49-3	817332-50-6
817332-51-7	817332-52-8	817332-53-9	817332-54-0	817332-55-1
817332-56-2	817332-57-3	817332-58-4	817332-59-5	817332-60-8
817332-61-9	817332-62-0	817332-63-1	817332-64-2	817332-65-3
817332-66-4	817332-67-5	817332-68-6	817332-69-7	817332-70-0
817332-71-1	817332-72-2	817332-73-3	817332-74-4	817332-75-5
817332-76-6	817332-77-7	817332-78-8	817332-79-9	817332-80-2
817332-81-3	817332-82-4	817332-83-5	817332-84-6	817332-85-7
817332-86-8	817332-87-9	817332-88-0	817332-89-1	817332-90-4
817332-91-5	817332-92-6	817332-93-7	817332-94-8	817332-95-9
817332-96-0	817332-97-1	817332-98-2	817332-99-3	817333-00-9
817333-01-0	817333-02-1	817333-03-2	817333-04-3	817333-05-4
817333-06-5	817333-07-6	817333-08-7	817333-09-8	817333-10-1
817333-11-2	817333-12-3	817333-13-4	817333-14-5	817333-15-6
817333-16-7	817333-17-8	817333-18-9	817333-19-0	817333-20-3
817333-21-4	817333-22-5	817333-23-6	817333-24-7	817333-25-8
817333-26-9	817333-27-0	817333-28-1	817333-29-2	817333-30-5
817333-31-6	817333-32-7	817333-33-8	817333-34-9	817333-35-0
817333-36-1	817333-37-2	817333-38-3	817333-39-4	817333-40-7
817333-41-8	817333-42-9	817333-43-0	817333-44-1	817333-45-2
817333-46-3	817333-47-4	817333-48-5	817333-49-6	817333-50-9
817333-51-0	817333-52-1	817333-53-2	817333-54-3	817333-55-4
817333-56-5	817333-57-6	817333-58-7	817333-59-8	817333-60-1
817333-61-2	817333-62-3	817333-63-4	817333-64-5	817333-65-6
817333-66-7	817333-67-8	817333-68-9	817333-69-0	817333-70-3
817333-71-4	817333-72-5	817333-73-6	817333-74-7	817333-75-8
817333-76-9	817333-77-0	817333-78-1	817333-79-2	817333-80-5
817333-81-6	817333-82-7	817333-83-8	817333-84-9	817333-85-0
817333-86-1	817333-87-2	817333-88-3	817333-89-4	817333-90-7
817333-91-8	817333-92-9	817333-93-0	817333-94-1	817333-95-2
817333-96-3	817333-97-4	817333-98-5	817333-99-6	817334-00-2
817334-01-3	817334-02-4	817334-03-5	817334-04-6	817334-05-7
817334-06-8	817334-07-9	817334-08-0	817334-09-1	817334-10-4
817334-11-5	817334-12-6	817334-13-7	817334-14-8	817334-15-9
817334-16-0	817334-17-1	817334-18-2	817334-19-3	817334-20-6
817334-21-7	817334-22-8	817334-23-9	817334-24-0	817334-25-1
817334-26-2	817334-27-3	817334-28-4	817334-29-5	817334-30-8
817334-31-9	817334-32-0	817334-33-1	817334-34-2	817334-35-3
817334-36-4	817334-37-5	817334-38-6	817334-39-7	817334-40-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; *Myxococcus xanthus* genome and proteome sequences)

IT 817334-41-1	817334-42-2	817334-43-3	817334-44-4	817334-45-5
817334-46-6	817334-47-7	817334-48-8	817334-49-9	817334-50-2
817334-51-3	817334-52-4	817334-53-5	817334-54-6	817334-55-7
817334-56-8	817334-57-9	817334-58-0	817334-59-1	817334-60-4
817334-61-5	817334-62-6	817334-63-7	817334-64-8	817334-65-9
817334-66-0	817334-67-1	817334-68-2	817334-69-3	817334-70-6
817334-71-7	817334-72-8	817334-73-9	817334-74-0	817334-75-1
817334-76-2	817334-77-3	817334-78-4	817334-79-5	817334-80-8
817334-81-9	817334-82-0	817334-83-1	817334-84-2	817334-85-3
817334-86-4	817334-87-5	817334-88-6	817334-89-7	817334-90-0
817334-91-1	817334-92-2	817334-93-3	817334-94-4	817334-95-5
817334-96-6	817334-97-7	817334-98-8	817334-99-9	817335-00-5
817335-01-6	817335-02-7	817335-03-8	817335-04-9	817335-05-0
817335-06-1	817335-07-2	817335-08-3	817335-09-4	817335-10-7

817335-11-8	817335-12-9	817335-13-0	817335-14-1	817335-15-2
817335-16-3	817335-17-4	817335-18-5	817335-19-6	817335-20-9
817335-21-0	817335-22-1	817335-23-2	817335-24-3	817335-25-4
817335-26-5	817335-27-6	817335-28-7	817335-29-8	817335-30-1
817335-31-2	817335-32-3	817335-33-4	817335-34-5	817335-35-6
817335-36-7	817335-37-8	817335-38-9	817335-39-0	817335-40-3
817335-41-4	817335-42-5	817335-43-6	817335-44-7	817335-45-8
817335-46-9	817335-47-0	817335-48-1	817335-49-2	817335-50-5
817335-51-6	817335-52-7	817335-53-8	817335-54-9	817335-55-0
817335-56-1	817335-57-2	817335-58-3	817335-59-4	817335-60-7
817335-61-8	817335-62-9	817335-63-0	817335-64-1	817335-65-2
817335-66-3	817335-67-4	817335-68-5	817335-69-6	817335-70-9
817335-71-0	817335-72-1	817335-73-2	817335-74-3	817335-75-4
817335-76-5	817335-77-6	817335-78-7	817335-79-8	817335-80-1
817335-81-2	817335-82-3	817335-83-4	817335-84-5	817335-85-6
817335-86-7	817335-87-8	817335-88-9	817335-89-0	817335-90-3
817335-91-4	817335-92-5	817335-93-6	817335-94-7	817335-95-8
817335-96-9	817335-97-0	817335-98-1	817335-99-2	817336-00-8
817336-01-9	817336-02-0	817336-03-1	817336-04-2	817336-05-3
817336-06-4	817336-07-5	817336-08-6	817336-09-7	817336-10-0
817336-11-1	817336-12-2	817336-13-3	817336-14-4	817336-15-5
817336-16-6	817336-17-7	817336-18-8	817336-19-9	817336-20-2
817336-21-3	817336-22-4	817336-23-5	817336-24-6	817336-25-7
817336-26-8	817336-27-9	817336-28-0	817336-29-1	817336-30-4
817336-31-5	817336-32-6	817336-33-7	817336-34-8	817336-35-9
817336-36-0	817336-37-1	817336-38-2	817336-39-3	817336-40-6
817336-41-7	817336-42-8	817336-43-9	817336-44-0	817336-45-1
817336-46-2	817336-47-3	817336-48-4	817336-49-5	817336-50-8
817336-51-9	817336-52-0	817336-53-1	817336-54-2	817336-55-3
817336-56-4	817336-57-5	817336-58-6	817336-59-7	817336-60-0
817336-61-1	817336-62-2	817336-63-3	817336-64-4	817336-65-5
817336-66-6	817336-67-7	817336-68-8	817336-69-9	817336-70-2
817336-71-3	817336-72-4	817336-73-5	817336-74-6	817336-75-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817336-76-8	817336-77-9	817336-78-0	817336-79-1	817336-80-4
	817336-81-5	817336-82-6	817336-83-7	817336-84-8	817336-85-9
	817336-86-0	817336-87-1	817336-88-2	817336-89-3	817336-90-6
	817336-91-7	817336-92-8	817336-93-9	817336-94-0	817336-95-1
	817336-96-2	817336-97-3	817336-98-4	817336-99-5	817337-00-1
	817337-01-2	817337-02-3	817337-03-4	817337-04-5	817337-05-6
	817337-06-7	817337-07-8	817337-08-9	817337-09-0	817337-10-3
	817337-11-4	817337-12-5	817337-13-6	817337-14-7	817337-15-8
	817337-16-9	817337-17-0	817337-18-1	817337-19-2	817337-20-5
	817337-21-6	817337-22-7	817337-23-8	817337-24-9	817337-25-0
	817337-26-1	817337-27-2	817337-28-3	817337-29-4	817337-30-7
	817337-31-8	817337-32-9	817337-33-0	817337-34-1	817337-35-2
	817337-36-3	817337-37-4	817337-38-5	817337-39-6	817337-40-9
	817337-41-0	817337-42-1	817337-43-2	817337-44-3	817337-45-4
	817337-46-5	817337-47-6	817337-48-7	817337-49-8	817337-50-1
	817337-51-2	817337-52-3	817337-53-4	817337-54-5	817337-55-6
	817337-56-7	817337-57-8	817337-58-9	817337-59-0	817337-60-3
	817337-61-4	817337-62-5	817337-63-6	817337-64-7	817337-65-8
	817337-66-9	817337-67-0	817337-68-1	817337-69-2	817337-70-5
	817337-71-6	817337-72-7	817337-73-8	817337-74-9	817337-75-0
	817337-76-1	817337-77-2	817337-78-3	817337-79-4	817337-80-7
	817337-81-8	817337-82-9	817337-83-0	817337-84-1	817337-85-2
	817337-86-3	817337-87-4	817337-88-5	817337-89-6	817337-90-9
	817337-91-0	817337-92-1	817337-93-2	817337-94-3	817337-95-4
	817337-96-5	817337-97-6	817337-98-7	817337-99-8	817338-00-4

817338-01-5	817338-02-6	817338-03-7	817338-04-8	817338-05-9
817338-06-0	817338-07-1	817338-08-2	817338-09-3	817338-10-6
817338-11-7	817338-12-8	817338-13-9	817338-14-0	817338-15-1
817338-16-2	817338-17-3	817338-18-4	817338-19-5	817338-20-8
817338-21-9	817338-22-0	817338-23-1	817338-24-2	817338-25-3
817338-26-4	817338-27-5	817338-28-6	817338-29-7	817338-30-0
817338-31-1	817338-32-2	817338-33-3	817338-34-4	817338-35-5
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817339-06-3	817339-07-4	817339-08-5	817339-09-6	817339-10-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT	817339-11-0	817339-12-1	817339-13-2	817339-14-3	817339-15-4
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; Myxococcus xanthus genome and proteome sequences)

IT 14797-55-8, Nitrate, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(genes and proteins involved in metabolism of; Myxococcus xanthus genome and proteome sequences)

L34 ANSWER 8 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:5209 HCAPLUS

DN 142:69952

ED Entered STN: 05 Jan 2005
 TI Nucleic acid molecules and encoded proteins associated with maize and their uses for plant improvement
 IN La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David; Cao, Yongwei
 PA USA
 SO U.S. Pat. Appl. Publ., 15 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC C07H021-04; A01H001-00; C12N015-82; C12N005-04
 NCL 435069100; 435419000; 435468000; 530370000; 536023600; 800278000
 CC 3-3 (Biochemical Genetics)
 Section cross-reference(s): 6, 11

FAN. CNT 76

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004214272	A1	20041028	US 2003-425115	20030428 <--
	US 2004214272	A1	20041028	US 2003-425115	20030428 <--
PRAI	US 2003-425115	A	20030428	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004214272	IC	C07H021-04IC A01H001-00IC C12N015-82IC C12N005-04
	NCL	435069100; 435419000; 435468000; 530370000; 536023600; 800278000

AB Recombinant polynucleotides useful for improvement of plants are provided. In particular, a total of 184,663 cDNA sequences are provided from cDNA libraries generated from *Zea mays* (corn). The polypeptides encoded by these polynucleotide sequences are also provided. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol. based methods. Functions of polypeptides are determined using a hierarchical classification tool (FunCAT) and five public classification schemes (GO_BP, GO_CC, GO_MF, KEGG, and EC) and one internal Monsanto classification scheme (POI). The disclosed recombinant polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of 74 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

ST plant protein cDNA sequence transformation; corn cDNA sequence plant transformation

IT Stress, plant

(cold, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Stress, plant

(heat, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Recombination, genetic

(homologous, improved rate of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Cell cycle

(improved growth rate by manipulation of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Proteins

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(improved production of seed; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Growth regulators, plant

- RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Pathogen
(improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Carbohydrates, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(improved use and/or uptake of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Disease resistance, plant
Growth and development, plant
Herbicide resistance
Photosynthesis, biological
(improvement of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Embryophyta
Protein sequences
Transformation, genetic
Zea mays
cDNA sequences
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Proteins
cDNA
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Transcription factors
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Stress, plant
(osmotic, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Stress, plant
(water deficiency, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT 812648-02-5 812648-03-6 812648-04-7 812648-05-8 812648-06-9
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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812757-70-3	812757-71-4	812757-72-5	812757-73-6	812757-74-7
812757-75-8	812757-76-9	812757-77-0	812757-78-1	812757-79-2
812757-80-5	812757-81-6	812757-82-7	812757-83-8	812757-84-9
812757-85-0	812757-86-1	812757-87-2	812757-88-3	812757-89-4
812757-90-7	812757-91-8	812757-92-9	812757-93-0	812757-94-1
812757-95-2	812757-96-3	812757-97-4	812757-98-5	812757-99-6

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812758-00-2	812758-01-3	812758-02-4	812758-03-5	812758-04-6
	812758-05-7	812758-06-8	812758-07-9	812758-08-0	812758-09-1
	812758-10-4	812758-11-5	812758-12-6	812758-13-7	812758-14-8
	812758-15-9	812758-16-0	812758-17-1	812758-18-2	812758-19-3
	812758-20-6	812758-21-7	812758-22-8	812758-23-9	812758-24-0
	812758-25-1	812758-26-2	812758-27-3	812758-28-4	812758-29-5
	812758-30-8	812758-31-9	812758-32-0	812758-33-1	812758-34-2
	812758-35-3	812758-36-4	812758-37-5	812758-38-6	812758-39-7
	812758-40-0	812758-41-1	812758-42-2	812758-43-3	812758-44-4
	812758-45-5	812758-46-6	812758-47-7	812758-48-8	812758-49-9
	812758-50-2	812758-51-3	812758-52-4	812758-53-5	812758-54-6
	812758-55-7	812758-56-8	812758-57-9	812758-58-0	812758-59-1
	812758-60-4	812758-61-5	812758-62-6	812758-63-7	812758-64-8
	812758-65-9	812758-66-0	812758-67-1	812758-68-2	812758-69-3
	812758-70-6	812758-71-7	812758-72-8	812758-73-9	812758-74-0
	812758-75-1	812758-76-2	812758-77-3	812758-78-4	812758-79-5
	812758-80-8	812758-81-9	812758-82-0	812758-83-1	812758-84-2
	812758-85-3	812758-86-4	812758-87-5	812758-88-6	812758-89-7
	812758-90-0	812758-91-1	812758-92-2	812758-93-3	812758-94-4
	812758-95-5	812758-96-6	812758-97-7	812758-98-8	812758-99-9
	812759-00-5	812759-01-6	812759-02-7	812759-03-8	812759-04-9
	812759-05-0	812759-06-1	812759-07-2	812759-08-3	812759-09-4
	812759-10-7	812759-11-8	812759-12-9	812759-13-0	812759-14-1
	812759-15-2	812759-16-3	812759-17-4	812759-18-5	812759-19-6
	812759-20-9	812759-21-0	812759-22-1	812759-23-2	812759-24-3
	812759-25-4	812759-26-5	812759-27-6	812759-28-7	812759-29-8
	812759-30-1	812759-31-2	812759-32-3	812759-33-4	812759-34-5
	812759-35-6	812759-36-7	812759-37-8	812759-38-9	812759-39-0
	812759-40-3	812759-41-4	812759-42-5	812759-43-6	812759-44-7
	812759-45-8	812759-46-9	812759-47-0	812759-48-1	812759-49-2
	812759-50-5	812759-51-6	812759-52-7	812759-53-8	812759-54-9
	812759-55-0	812759-56-1	812759-57-2	812759-58-3	812759-59-4
	812759-60-7	812759-61-8	812759-62-9	812759-63-0	812759-64-1
	812759-65-2	812759-66-3	812759-67-4	812759-68-5	812759-69-6
	812759-70-9	812759-71-0	812759-72-1	812759-73-2	812759-74-3
	812759-75-4	812759-76-5	812759-77-6	812759-78-7	812759-79-8
	812759-80-1	812759-81-2	812759-82-3	812759-83-4	812759-84-5
	812759-85-6	812759-86-7	812759-87-8	812759-88-9	812759-89-0
	812759-90-3	812759-91-4	812759-92-5	812759-93-6	812759-94-7
	812759-95-8	812759-96-9	812759-97-0	812759-98-1	812759-99-2
	812760-00-2	812760-01-3	812760-02-4	812760-03-5	812760-04-6
	812760-05-7	812760-06-8	812760-07-9	812760-08-0	812760-09-1
	812760-10-4	812760-11-5	812760-12-6	812760-13-7	812760-14-8
	812760-15-9	812760-16-0	812760-17-1	812760-18-2	812760-19-3

812760-20-6 812760-21-7 812760-22-8 812760-23-9 812760-24-0
 812760-25-1 812760-26-2 812760-27-3 812760-28-4 812760-29-5
 812760-30-8 812760-31-9 812760-32-0 812760-33-1 812760-34-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812760-35-3 812760-36-4 812760-37-5 812760-38-6 812760-39-7
 812760-40-0 812760-41-1 812760-42-2 812760-43-3 812760-44-4
 812760-45-5 812760-46-6 812760-47-7 812760-48-8 812760-49-9
 812760-50-2 812760-51-3 812760-52-4 812760-53-5 812760-54-6
 812760-55-7 812760-56-8 812760-57-9 812760-58-0 812760-59-1
 812760-60-4 812760-61-5 812760-62-6 812760-63-7 812760-64-8
 812760-65-9 812760-66-0 812760-67-1 812760-68-2 812760-69-3
 812760-70-6 812760-71-7 812760-72-8 812760-73-9 812760-74-0
 812760-75-1 812760-76-2 812760-77-3 812760-78-4 812760-79-5
 812760-80-8 812760-81-9 812760-82-0 812760-83-1 812760-84-2
 812760-85-3 812760-86-4 812760-87-5 812760-88-6 812760-89-7
 812760-90-0 812760-91-1 812760-92-2 812760-93-3 812760-94-4
 812760-95-5 812760-96-6 812760-97-7 812760-98-8 812760-99-9
 812761-00-5 812761-01-6 812761-02-7 812761-03-8 812761-04-9
 812761-05-0 812761-06-1 812761-07-2 812761-08-3 812761-09-4
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 812761-15-2 812761-16-3 812761-17-4 812761-18-5 812761-19-6
 812761-20-9 812761-21-0 812761-22-1 812761-23-2 812761-24-3
 812761-25-4 812761-26-5 812761-27-6 812761-28-7 812761-29-8
 812761-30-1 812761-31-2 812761-32-3 812761-33-4 812761-34-5
 812761-35-6 812761-36-7 812761-37-8 812761-38-9 812761-39-0
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 812761-45-8 812761-46-9 812761-47-0 812761-48-1 812761-49-2
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 812761-55-0 812761-56-1 812761-57-2 812761-58-3 812761-59-4
 812761-60-7 812761-61-8 812761-62-9 812761-63-0 812761-64-1
 812761-65-2 812761-66-3 812761-67-4 812761-68-5 812761-69-6
 812761-70-9 812761-71-0 812761-72-1 812761-73-2 812761-74-3
 812761-75-4 812761-76-5 812761-77-6 812761-78-7 812761-79-8
 812761-80-1 812761-81-2 812761-82-3 812761-83-4 812761-84-5
 812761-85-6 812761-86-7 812761-87-8 812761-88-9 812761-89-0
 812761-90-3 812761-91-4 812761-92-5 812761-93-6 812761-94-7
 812761-95-8 812761-96-9 812761-97-0 812761-98-1 812761-99-2
 812762-00-8 812762-01-9 812762-02-0 812762-03-1 812762-04-2
 812762-05-3 812762-06-4 812762-07-5 812762-08-6 812762-09-7
 812762-10-0 812762-11-1 812762-12-2 812762-13-3 812762-14-4
 812762-15-5 812762-16-6 812762-17-7 812762-18-8 812762-19-9
 812762-20-2 812762-21-3 812762-22-4 812762-23-5 812762-24-6
 812762-25-7 812762-26-8 812762-27-9 812762-28-0 812762-29-1
 812762-30-4 812762-31-5 812762-32-6 812762-33-7 812762-34-8
 812762-35-9 812762-36-0 812762-37-1 812762-38-2 812762-39-3
 812762-40-6 812762-41-7 812762-42-8 812762-43-9 812762-44-0
 812762-45-1 812762-46-2 812762-47-3 812762-48-4 812762-49-5
 812762-50-8 812762-51-9 812762-52-0 812762-53-1 812762-54-2
 812762-55-3 812762-56-4 812762-57-5 812762-58-6 812762-59-7
 812762-60-0 812762-61-1 812762-62-2 812762-63-3 812762-64-4
 812762-65-5 812762-66-6 812762-67-7 812762-68-8 812762-69-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812762-70-2 812762-71-3 812762-72-4 812762-73-5 812762-74-6
 812762-75-7 812762-76-8 812762-77-9 812762-78-0 812762-79-1
 812762-80-4 812762-81-5 812762-82-6 812762-83-7 812762-84-8

812762-85-9	812762-86-0	812762-87-1	812762-88-2	812762-89-3
812762-90-6	812762-91-7	812762-92-8	812762-93-9	812762-94-0
812762-95-1	812762-96-2	812762-97-3	812762-98-4	812762-99-5
812763-00-1	812763-01-2	812763-02-3	812763-03-4	812763-04-5
812763-05-6	812763-06-7	812763-07-8	812763-08-9	812763-09-0
812763-10-3	812763-11-4	812763-12-5	812763-13-6	812763-14-7
812763-15-8	812763-16-9	812763-17-0	812763-18-1	812763-19-2
812763-20-5	812763-21-6	812763-22-7	812763-23-8	812763-24-9
812763-25-0	812763-26-1	812763-27-2	812763-28-3	812763-29-4
812763-30-7	812763-31-8	812763-32-9	812763-33-0	812763-34-1
812763-35-2	812763-36-3	812763-37-4	812763-38-5	812763-39-6
812763-40-9	812763-41-0	812763-42-1	812763-43-2	812763-44-3
812763-45-4	812763-46-5	812763-47-6	812763-48-7	812763-49-8
812763-50-1	812763-51-2	812763-52-3	812763-53-4	812763-54-5
812763-55-6	812763-56-7	812763-57-8	812763-58-9	812763-59-0
812763-60-3	812763-61-4	812763-62-5	812763-63-6	812763-64-7
812763-65-8	812763-66-9	812763-67-0	812763-68-1	812763-69-2
812763-70-5	812763-71-6	812763-72-7	812763-73-8	812763-74-9
812763-75-0	812763-76-1	812763-77-2	812763-78-3	812763-79-4
812763-80-7	812763-81-8	812763-82-9	812763-83-0	812763-84-1
812763-85-2	812763-86-3	812763-87-4	812763-88-5	812763-89-6
812763-90-9	812763-91-0	812763-92-1	812763-93-2	812763-94-3
812763-95-4	812763-96-5	812763-97-6	812763-98-7	812763-99-8
812764-00-4	812764-01-5	812764-02-6	812764-03-7	812764-04-8
812764-05-9	812764-06-0	812764-07-1	812764-08-2	812764-09-3
812764-10-6	812764-11-7	812764-12-8	812764-13-9	812764-14-0
812764-15-1	812764-16-2	812764-17-3	812764-18-4	812764-19-5
812764-20-8	812764-21-9	812764-22-0	812764-23-1	812764-24-2
812764-25-3	812764-26-4	812764-27-5	812764-28-6	812764-29-7
812764-30-0	812764-31-1	812764-32-2	812764-33-3	812764-34-4
812764-35-5	812764-36-6	812764-37-7	812764-38-8	812764-39-9
812764-40-2	812764-41-3	812764-42-4	812764-43-5	812764-44-6
812764-45-7	812764-46-8	812764-47-9	812764-48-0	812764-49-1
812764-50-4	812764-51-5	812764-52-6	812764-53-7	812764-54-8
812764-55-9	812764-56-0	812764-57-1	812764-58-2	812764-59-3
812764-60-6	812764-61-7	812764-62-8	812764-63-9	812764-64-0
812764-65-1	812764-66-2	812764-67-3	812764-68-4	812764-69-5
812764-70-8	812764-71-9	812764-72-0	812764-73-1	812764-74-2
812764-75-3	812764-76-4	812764-77-5	812764-78-6	812764-79-7
812764-80-0	812764-81-1	812764-82-2	812764-83-3	812764-84-4
812764-85-5	812764-86-6	812764-87-7	812764-88-8	812764-89-9
812764-90-2	812764-91-3	812764-92-4	812764-93-5	812764-94-6
812764-95-7	812764-96-8	812764-97-9	812764-98-0	812764-99-1
812765-00-7	812765-01-8	812765-02-9	812765-03-0	812765-04-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812765-05-2	812765-06-3	812765-07-4	812765-08-5	812765-09-6
	812765-10-9	812765-11-0	812765-12-1	812765-13-2	812765-14-3
	812765-15-4	812765-16-5	812765-17-6	812765-18-7	812765-19-8
	812765-20-1	812765-21-2	812765-22-3	812765-23-4	812765-24-5
	812765-25-6	812765-26-7	812765-27-8	812765-28-9	812765-29-0
	812765-30-3	812765-31-4	812765-32-5	812765-33-6	812765-34-7
	812765-35-8	812765-36-9	812765-37-0	812765-38-1	812765-39-2
	812765-40-5	812765-41-6	812765-42-7	812765-43-8	812765-44-9
	812765-45-0	812765-46-1	812765-47-2	812765-48-3	812765-49-4
	812765-50-7	812765-51-8	812765-52-9	812765-53-0	812765-54-1
	812765-55-2	812765-56-3	812765-57-4	812765-58-5	812765-59-6
	812765-60-9	812765-61-0	812765-62-1	812765-63-2	812765-64-3
	812765-65-4	812765-66-5	812765-67-6	812765-68-7	812765-69-8

812765-70-1	812765-71-2	812765-72-3	812765-73-4	812765-74-5
812765-75-6	812765-76-7	812765-77-8	812765-78-9	812765-79-0
812765-80-3	812765-81-4	812765-82-5	812765-83-6	812765-84-7
812765-85-8	812765-86-9	812765-87-0	812765-88-1	812765-89-2
812765-90-5	812765-91-6	812765-92-7	812765-93-8	812765-94-9
812765-95-0	812765-96-1	812765-97-2	812765-98-3	812765-99-4
812766-00-0	812766-01-1	812766-02-2	812766-03-3	812766-04-4
812766-05-5	812766-06-6	812766-07-7	812766-08-8	812766-09-9
812766-10-2	812766-11-3	812766-12-4	812766-13-5	812766-14-6
812766-15-7	812766-16-8	812766-17-9	812766-18-0	812766-19-1
812766-20-4	812766-21-5	812766-22-6	812766-23-7	812766-24-8
812766-25-9	812766-26-0	812766-27-1	812766-28-2	812766-29-3
812766-30-6	812766-31-7	812766-32-8	812766-33-9	812766-34-0
812766-35-1	812766-36-2	812766-37-3	812766-38-4	812766-39-5
812766-40-8	812766-41-9	812766-42-0	812766-43-1	812766-44-2
812766-45-3	812766-46-4	812766-47-5	812766-48-6	812766-49-7
812766-50-0	812766-51-1	812766-52-2	812766-53-3	812766-54-4
812766-55-5	812766-56-6	812766-57-7	812766-58-8	812766-59-9
812766-60-2	812766-61-3	812766-62-4	812766-63-5	812766-64-6
812766-65-7	812766-66-8	812766-67-9	812766-68-0	812766-69-1
812766-70-4	812766-71-5	812766-72-6	812766-73-7	812766-74-8
812766-75-9	812766-76-0	812766-77-1	812766-78-2	812766-79-3
812766-80-6	812766-81-7	812766-82-8	812766-83-9	812766-84-0
812766-85-1	812766-86-2	812766-87-3	812766-88-4	812766-89-5
812766-90-8	812766-91-9	812766-92-0	812766-93-1	812766-94-2
812766-95-3	812766-96-4	812766-97-5	812766-98-6	812766-99-7
812767-00-3	812767-01-4	812767-02-5	812767-03-6	812767-04-7
812767-05-8	812767-06-9	812767-07-0	812767-08-1	812767-09-2
812767-10-5	812767-11-6	812767-12-7	812767-13-8	812767-14-9
812767-15-0	812767-16-1	812767-17-2	812767-18-3	812767-19-4
812767-20-7	812767-21-8	812767-22-9	812767-23-0	812767-24-1
812767-25-2	812767-26-3	812767-27-4	812767-28-5	812767-29-6
812767-30-9	812767-31-0	812767-32-1	812767-33-2	812767-34-3
812767-35-4	812767-36-5	812767-37-6	812767-38-7	812767-39-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812767-40-1	812767-41-2	812767-42-3	812767-43-4	812767-44-5
	812767-45-6	812767-46-7	812767-47-8	812767-48-9	812767-49-0
	812767-50-3	812767-51-4	812767-52-5	812767-53-6	812767-54-7
	812767-55-8	812767-56-9	812767-57-0	812767-58-1	812767-59-2
	812767-60-5	812767-61-6	812767-62-7	812767-63-8	812767-64-9
	812767-65-0	812767-66-1	812767-67-2	812767-68-3	812767-69-4
	812767-70-7	812767-71-8	812767-72-9	812767-73-0	812767-74-1
	812767-75-2	812767-76-3	812767-77-4	812767-78-5	812767-79-6
	812767-80-9	812767-81-0	812767-82-1	812767-83-2	812767-84-3
	812767-85-4	812767-86-5	812767-87-6	812767-88-7	812767-89-8
	812767-90-1	812767-91-2	812767-92-3	812767-93-4	812767-94-5
	812767-95-6	812767-96-7	812767-97-8	812767-98-9	812767-99-0
	812768-00-6	812768-01-7	812768-02-8	812768-03-9	812768-04-0
	812768-05-1	812768-06-2	812768-07-3	812768-08-4	812768-09-5
	812768-10-8	812768-11-9	812768-12-0	812768-13-1	812768-14-2
	812768-15-3	812768-16-4	812768-17-5	812768-18-6	812768-19-7
	812768-20-0	812768-21-1	812768-22-2	812768-23-3	812768-24-4
	812768-25-5	812768-26-6	812768-27-7	812768-28-8	812768-29-9
	812768-30-2	812768-31-3	812768-32-4	812768-33-5	812768-34-6
	812768-35-7	812768-36-8	812768-37-9	812768-38-0	812768-39-1
	812768-40-4	812768-41-5	812768-42-6	812768-43-7	812768-44-8
	812768-45-9	812768-46-0	812768-47-1	812768-48-2	812768-49-3
	812768-50-6	812768-51-7	812768-52-8	812768-53-9	812768-54-0

812768-55-1	812768-56-2	812768-57-3	812768-58-4	812768-59-5
812768-60-8	812768-61-9	812768-62-0	812768-63-1	812768-64-2
812768-65-3	812768-66-4	812768-67-5	812768-68-6	812768-69-7
812768-70-0	812768-71-1	812768-72-2	812768-73-3	812768-74-4
812768-75-5	812768-76-6	812768-77-7	812768-78-8	812768-79-9
812768-80-2	812768-81-3	812768-82-4	812768-83-5	812768-84-6
812768-85-7	812768-86-8	812768-87-9	812768-88-0	812768-89-1
812768-90-4	812768-91-5	812768-92-6	812768-93-7	812768-94-8
812768-95-9	812768-96-0	812768-97-1	812768-98-2	812768-99-3
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812769-10-1	812769-11-2	812769-12-3	812769-13-4	812769-14-5
812769-15-6	812769-16-7	812769-17-8	812769-18-9	812769-19-0
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812769-25-8	812769-26-9	812769-27-0	812769-28-1	812769-29-2
812769-30-5	812769-31-6	812769-32-7	812769-33-8	812769-34-9
812769-35-0	812769-36-1	812769-37-2	812769-38-3	812769-39-4
812769-40-7	812769-41-8	812769-42-9	812769-43-0	812769-44-1
812769-45-2	812769-46-3	812769-47-4	812769-48-5	812769-49-6
812769-50-9	812769-51-0	812769-52-1	812769-53-2	812769-54-3
812769-55-4	812769-56-5	812769-57-6	812769-58-7	812769-59-8
812769-60-1	812769-61-2	812769-62-3	812769-63-4	812769-64-5
812769-65-6	812769-66-7	812769-67-8	812769-68-9	812769-69-0
812769-70-3	812769-71-4	812769-72-5	812769-73-6	812769-74-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812769-75-8	812769-76-9	812769-77-0	812769-78-1	812769-79-2
812769-80-5	812769-81-6	812769-82-7	812769-83-8	812769-84-9
812769-85-0	812769-86-1	812769-87-2	812769-88-3	812769-89-4
812769-90-7	812769-91-8	812769-92-9	812769-93-0	812769-94-1
812769-95-2	812769-96-3	812769-97-4	812769-98-5	812769-99-6
812770-00-6	812770-01-7	812770-02-8	812770-03-9	812770-04-0
812770-05-1	812770-06-2	812770-07-3	812770-08-4	812770-09-5
812770-10-8	812770-11-9	812770-12-0	812770-13-1	812770-14-2
812770-15-3	812770-16-4	812770-17-5	812770-18-6	812770-19-7
812770-20-0	812770-21-1	812770-22-2	812770-23-3	812770-24-4
812770-25-5	812770-26-6	812770-27-7	812770-28-8	812770-29-9
812770-30-2	812770-31-3	812770-32-4	812770-33-5	812770-34-6
812770-35-7	812770-36-8	812770-37-9	812770-38-0	812770-39-1
812770-40-4	812770-41-5	812770-42-6	812770-43-7	812770-44-8
812770-45-9	812770-46-0	812770-47-1	812770-48-2	812770-49-3
812770-50-6	812770-51-7	812770-52-8	812770-53-9	812770-54-0
812770-55-1	812770-56-2	812770-57-3	812770-58-4	812770-59-5
812770-60-8	812770-61-9	812770-62-0	812770-63-1	812770-64-2
812770-65-3	812770-66-4	812770-67-5	812770-68-6	812770-69-7
812770-70-0	812770-71-1	812770-72-2	812770-73-3	812770-74-4
812770-75-5	812770-76-6	812770-77-7	812770-78-8	812770-79-9
812770-80-2	812770-81-3	812770-82-4	812770-83-5	812770-84-6
812770-85-7	812770-86-8	812770-87-9	812770-88-0	812770-89-1
812770-90-4	812770-91-5	812770-92-6	812770-93-7	812770-94-8
812770-95-9	812770-96-0	812770-97-1	812770-98-2	812770-99-3
812771-00-9	812771-01-0	812771-02-1	812771-03-2	812771-04-3
812771-05-4	812771-06-5	812771-07-6	812771-08-7	812771-09-8
812771-10-1	812771-11-2	812771-12-3	812771-13-4	812771-14-5
812771-15-6	812771-16-7	812771-17-8	812771-18-9	812771-19-0
812771-20-3	812771-21-4	812771-22-5	812771-23-6	812771-24-7
812771-25-8	812771-26-9	812771-27-0	812771-28-1	812771-29-2
812771-30-5	812771-31-6	812771-32-7	812771-33-8	812771-34-9
812771-35-0	812771-36-1	812771-37-2	812771-38-3	812771-39-4

812771-40-7	812771-41-8	812771-42-9	812771-43-0	812771-44-1
812771-45-2	812771-46-3	812771-47-4	812771-48-5	812771-49-6
812771-50-9	812771-51-0	812771-52-1	812771-53-2	812771-54-3
812771-55-4	812771-56-5	812771-57-6	812771-58-7	812771-59-8
812771-60-1	812771-61-2	812771-62-3	812771-63-4	812771-64-5
812771-65-6	812771-66-7	812771-67-8	812771-68-9	812771-69-0
812771-70-3	812771-71-4	812771-72-5	812771-73-6	812771-74-7
812771-75-8	812771-76-9	812771-77-0	812771-78-1	812771-79-2
812771-80-5	812771-81-6	812771-82-7	812771-83-8	812771-84-9
812771-85-0	812771-86-1	812771-87-2	812771-88-3	812771-89-4
812771-90-7	812771-91-8	812771-92-9	812771-93-0	812771-94-1
812771-95-2	812771-96-3	812771-97-4	812771-98-5	812771-99-6
812772-00-2	812772-01-3	812772-02-4	812772-03-5	812772-04-6
812772-05-7	812772-06-8	812772-07-9	812772-08-0	812772-09-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812772-10-4	812772-11-5	812772-12-6	812772-13-7	812772-14-8
812772-15-9	812772-16-0	812772-17-1	812772-18-2	812772-19-3
812772-20-6	812772-21-7	812772-22-8	812772-23-9	812772-24-0
812772-25-1	812772-26-2	812772-27-3	812772-28-4	812772-29-5
812772-30-8	812772-31-9	812772-32-0	812772-33-1	812772-34-2
812772-35-3	812772-36-4	812772-37-5	812772-38-6	812772-39-7
812772-40-0	812772-41-1	812772-42-2	812772-43-3	812772-44-4
812772-45-5	812772-46-6	812772-47-7	812772-48-8	812772-49-9
812772-50-2	812772-51-3	812772-52-4	812772-53-5	812772-54-6
812772-55-7	812772-56-8	812772-57-9	812772-58-0	812772-59-1
812772-60-4	812772-61-5	812772-62-6	812772-63-7	812772-64-8
812772-65-9	812772-66-0	812772-67-1	812772-68-2	812772-69-3
812772-70-6	812772-71-7	812772-72-8	812772-73-9	812772-74-0
812772-75-1	812772-76-2	812772-77-3	812772-78-4	812772-79-5
812772-80-8	812772-81-9	812772-82-0	812772-83-1	812772-84-2
812772-85-3	812772-86-4	812772-87-5	812772-88-6	812772-89-7
812772-90-0	812772-91-1	812772-92-2	812772-93-3	812772-94-4
812772-95-5	812772-96-6	812772-97-7	812772-98-8	812772-99-9
812773-00-5	812773-01-6	812773-02-7	812773-03-8	812773-04-9
812773-05-0	812773-06-1	812773-07-2	812773-08-3	812773-09-4
812773-10-7	812773-11-8	812773-12-9	812773-13-0	812773-14-1
812773-15-2	812773-16-3	812773-17-4	812773-18-5	812773-19-6
812773-20-9	812773-21-0	812773-22-1	812773-23-2	812773-24-3
812773-25-4	812773-26-5	812773-27-6	812773-28-7	812773-29-8
812773-30-1	812773-31-2	812773-32-3	812773-33-4	812773-34-5
812773-35-6	812773-36-7	812773-37-8	812773-38-9	812773-39-0
812773-40-3	812773-41-4	812773-42-5	812773-43-6	812773-44-7
812773-45-8	812773-46-9	812773-47-0	812773-48-1	812773-49-2
812773-50-5	812773-51-6	812773-52-7	812773-53-8	812773-54-9
812773-55-0	812773-56-1	812773-57-2	812773-58-3	812773-59-4
812773-60-7	812773-61-8	812773-62-9	812773-63-0	812773-64-1
812773-65-2	812773-66-3	812773-67-4	812773-68-5	812773-69-6
812773-70-9	812773-71-0	812773-72-1	812773-73-2	812773-74-3
812773-75-4	812773-76-5	812773-77-6	812773-78-7	812773-79-8
812773-80-1	812773-81-2	812773-82-3	812773-83-4	812773-84-5
812773-85-6	812773-86-7	812773-87-8	812773-88-9	812773-89-0
812773-90-3	812773-91-4	812773-92-5	812773-93-6	812773-94-7
812773-95-8	812773-96-9	812773-97-0	812773-98-1	812773-99-2
812774-00-8	812774-01-9	812774-02-0	812774-03-1	812774-04-2
812774-05-3	812774-06-4	812774-07-5	812774-08-6	812774-09-7
812774-10-0	812774-11-1	812774-12-2	812774-13-3	812774-14-4
812774-15-5	812774-16-6	812774-17-7	812774-18-8	812774-19-9
812774-20-2	812774-21-3	812774-22-4	812774-23-5	812774-24-6

812774-25-7 812774-26-8 812774-27-9 812774-28-0 812774-29-1
 812774-30-4 812774-31-5 812774-32-6 812774-33-7 812774-34-8
 812774-35-9 812774-36-0 812774-37-1 812774-38-2 812774-39-3
 812774-40-6 812774-41-7 812774-42-8 812774-43-9 812774-44-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812774-45-1 812774-46-2 812774-47-3 812774-48-4 812774-49-5
 812774-50-8 812774-51-9 812774-52-0 812774-53-1 812774-54-2
 812774-55-3 812774-56-4 812774-57-5 812774-58-6 812774-59-7
 812774-60-0 812774-61-1 812774-62-2 812774-63-3 812774-64-4
 812774-65-5 812774-66-6 812774-67-7 812774-68-8 812774-69-9
 812774-70-2 812774-71-3 812774-72-4 812774-73-5 812774-74-6
 812774-75-7 812774-76-8 812774-77-9 812774-78-0 812774-79-1
 812774-80-4 812774-81-5 812774-82-6 812774-83-7 812774-84-8
 812774-85-9 812774-86-0 812774-87-1 812774-88-2 812774-89-3
 812774-90-6 812774-91-7 812774-92-8 812774-93-9 812774-94-0
 812774-95-1 812774-96-2 812774-97-3 812774-98-4 812774-99-5
 812775-00-1 812775-01-2 812775-02-3 812775-03-4 812775-04-5
 812775-05-6 812775-06-7 812775-07-8 812775-08-9 812775-09-0
 812775-10-3 812775-11-4 812775-12-5 812775-13-6 812775-14-7
 812775-15-8 812775-16-9 812775-17-0 812775-18-1 812775-19-2
 812775-20-5 812775-21-6 812775-22-7 812775-23-8 812775-24-9
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 812775-30-7 812775-31-8 812775-32-9 812775-33-0 812775-34-1
 812775-35-2 812775-36-3 812775-37-4 812775-38-5 812775-39-6
 812775-40-9 812775-41-0 812775-42-1 812775-43-2 812775-44-3
 812775-45-4 812775-46-5 812775-47-6 812775-48-7 812775-49-8
 812775-50-1 812775-51-2 812775-52-3 812775-53-4 812775-54-5
 812775-55-6 812775-56-7 812775-57-8 812775-58-9 812775-59-0
 812775-60-3 812775-61-4 812775-62-5 812775-63-6 812775-64-7
 812775-65-8 812775-66-9 812775-67-0 812775-68-1 812775-69-2
 812775-70-5 812775-71-6 812775-72-7 812775-73-8 812775-74-9
 812775-75-0 812775-76-1 812775-77-2 812775-78-3 812775-79-4
 812775-80-7 812775-81-8 812775-82-9 812775-83-0 812775-84-1
 812775-85-2 812775-86-3 812775-87-4 812775-88-5 812775-89-6
 812775-90-9 812775-91-0 812775-92-1 812775-93-2 812775-94-3
 812775-95-4 812775-96-5 812775-97-6 812775-98-7 812775-99-8
 812776-00-4 812776-01-5 812776-02-6 812776-03-7 812776-04-8
 812776-05-9 812776-06-0 812776-07-1 812776-08-2 812776-09-3
 812776-10-6 812776-11-7 812776-12-8 812776-13-9 812776-14-0
 812776-15-1 812776-16-2 812776-17-3 812776-18-4 812776-19-5
 812776-20-8 812776-21-9 812776-22-0 812776-23-1 812776-24-2
 812776-25-3 812776-26-4 812776-27-5 812776-28-6 812776-29-7
 812776-30-0 812776-31-1 812776-32-2 812776-33-3 812776-34-4
 812776-35-5 812776-36-6 812776-37-7 812776-38-8 812776-39-9
 812776-40-2 812776-41-3 812776-42-4 812776-43-5 812776-44-6
 812776-45-7 812776-46-8 812776-47-9 812776-48-0 812776-49-1
 812776-50-4 812776-51-5 812776-52-6 812776-53-7 812776-54-8
 812776-55-9 812776-56-0 812776-57-1 812776-58-2 812776-59-3
 812776-60-6 812776-61-7 812776-62-8 812776-63-9 812776-64-0
 812776-65-1 812776-66-2 812776-67-3 812776-68-4 812776-69-5
 812776-70-8 812776-71-9 812776-72-0 812776-73-1 812776-74-2
 812776-75-3 812776-76-4 812776-77-5 812776-78-6 812776-79-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812776-80-0 812776-81-1 812776-82-2 812776-83-3 812776-84-4
 812776-85-5 812776-86-6 812776-87-7 812776-88-8 812776-89-9

812776-90-2	812776-91-3	812776-92-4	812776-93-5	812776-94-6
812776-95-7	812776-96-8	812776-97-9	812776-98-0	812776-99-1
812777-00-7	812777-01-8	812777-02-9	812777-03-0	812777-04-1
812777-05-2	812777-06-3	812777-07-4	812777-08-5	812777-09-6
812777-10-9	812777-11-0	812777-12-1	812777-13-2	812777-14-3
812777-15-4	812777-16-5	812777-17-6	812777-18-7	812777-19-8
812777-20-1	812777-21-2	812777-22-3	812777-23-4	812777-24-5
812777-25-6	812777-26-7	812777-27-8	812777-28-9	812777-29-0
812777-30-3	812777-31-4	812777-32-5	812777-33-6	812777-34-7
812777-35-8	812777-36-9	812777-37-0	812777-38-1	812777-39-2
812777-40-5	812777-41-6	812777-42-7	812777-43-8	812777-44-9
812777-45-0	812777-46-1	812777-47-2	812777-48-3	812777-49-4
812777-50-7	812777-51-8	812777-52-9	812777-53-0	812777-54-1
812777-55-2	812777-56-3	812777-57-4	812777-58-5	812777-59-6
812777-60-9	812777-61-0	812777-62-1	812777-63-2	812777-64-3
812777-65-4	812777-66-5	812777-67-6	812777-68-7	812777-69-8
812777-70-1	812777-71-2	812777-72-3	812777-73-4	812777-74-5
812777-75-6	812777-76-7	812777-77-8	812777-78-9	812777-79-0
812777-80-3	812777-81-4	812777-82-5	812777-83-6	812777-84-7
812777-85-8	812777-86-9	812777-87-0	812777-88-1	812777-89-2
812777-90-5	812777-91-6	812777-92-7	812777-93-8	812777-94-9
812777-95-0	812777-96-1	812777-97-2	812777-98-3	812777-99-4
812778-00-0	812778-01-1	812778-02-2	812778-03-3	812778-04-4
812778-05-5	812778-06-6	812778-07-7	812778-08-8	812778-09-9
812778-10-2	812778-11-3	812778-12-4	812778-13-5	812778-14-6
812778-15-7	812778-16-8	812778-17-9	812778-18-0	812778-19-1
812778-20-4	812778-21-5	812778-22-6	812778-23-7	812778-24-8
812778-25-9	812778-26-0	812778-27-1	812778-28-2	812778-29-3
812778-30-6	812778-31-7	812778-32-8	812778-33-9	812778-34-0
812778-35-1	812778-36-2	812778-37-3	812778-38-4	812778-39-5
812778-40-8	812778-41-9	812778-42-0	812778-43-1	812778-44-2
812778-45-3	812778-46-4	812778-47-5	812778-48-6	812778-49-7
812778-50-0	812778-51-1	812778-52-2	812778-53-3	812778-54-4
812778-55-5	812778-56-6	812778-57-7	812778-58-8	812778-60-2
812778-61-3	812778-62-4	812778-63-5	812778-64-6	812778-65-7
812778-66-8	812778-68-0	812778-69-1	812778-70-4	812778-71-5
812778-72-6	812778-73-7	812778-75-9	812778-76-0	812778-77-1
812778-78-2	812778-79-3	812778-80-6	812778-82-8	812778-83-9
812778-84-0	812778-85-1	812778-86-2	812778-87-3	812778-89-5
812778-90-8	812778-91-9	812778-92-0	812778-93-1	812778-94-2
812778-95-3	812778-96-4	812778-97-5	812778-98-6	812778-99-7
812779-00-3	812779-01-4	812779-02-5	812779-03-6	812779-04-7
812779-05-8	812779-06-9	812779-07-0	812779-08-1	812779-09-2
812779-10-5	812779-11-6	812779-12-7	812779-13-8	812779-14-9
812779-15-0	812779-16-1	812779-17-2	812779-18-3	812779-19-4

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812779-20-7	812779-21-8	812779-22-9	812779-23-0	812779-24-1
	812779-25-2	812779-26-3	812779-27-4	812779-28-5	812779-29-6
	812779-30-9	812779-31-0	812779-32-1	812779-33-2	812779-34-3
	812779-35-4	812779-36-5	812779-37-6	812779-38-7	812779-39-8
	812779-40-1	812779-41-2	812779-42-3	812779-43-4	812779-44-5
	812779-45-6	812779-46-7	812779-47-8	812779-48-9	812779-49-0
	812779-50-3	812779-51-4	812779-52-5	812779-53-6	812779-54-7
	812779-55-8	812779-56-9	812779-57-0	812779-58-1	812779-59-2
	812779-60-5	812779-61-6	812779-62-7	812779-63-8	812779-64-9
	812779-65-0	812779-66-1	812779-67-2	812779-68-3	812779-69-4
	812779-70-7	812779-71-8	812779-72-9	812779-73-0	812779-74-1
	812779-75-2	812779-76-3	812779-77-4	812779-78-5	812779-79-6

812779-80-9	812779-81-0	812779-82-1	812779-83-2	812779-84-3
812779-85-4	812779-86-5	812779-87-6	812779-88-7	812779-89-8
812779-90-1	812779-91-2	812779-92-3	812779-93-4	812779-94-5
812779-95-6	812779-96-7	812779-97-8	812779-98-9	812779-99-0
812780-00-0	812780-01-1	812780-02-2	812780-03-3	812780-04-4
812780-05-5	812780-06-6	812780-07-7	812780-08-8	812780-09-9
812780-10-2	812780-11-3	812780-12-4	812780-13-5	812780-14-6
812780-15-7	812780-16-8	812780-17-9	812780-18-0	812780-19-1
812780-20-4	812780-21-5	812780-22-6	812780-23-7	812780-24-8
812780-25-9	812780-26-0	812780-27-1	812780-28-2	812780-29-3
812780-30-6	812780-31-7	812780-32-8	812780-33-9	812780-34-0
812780-35-1	812780-36-2	812780-37-3	812780-38-4	812780-39-5
812780-40-8	812780-41-9	812780-42-0	812780-43-1	812780-44-2
812780-45-3	812780-46-4	812780-47-5	812780-48-6	812780-49-7
812780-50-0	812780-51-1	812780-52-2	812780-53-3	812780-54-4
812780-55-5	812780-56-6	812780-57-7	812780-58-8	812780-59-9
812780-60-2	812780-61-3	812780-62-4	812780-63-5	812780-64-6
812780-65-7	812780-66-8	812780-67-9	812780-68-0	812780-69-1
812780-70-4	812780-71-5	812780-72-6	812780-73-7	812780-74-8
812780-75-9	812780-76-0	812780-77-1	812780-78-2	812780-79-3
812780-80-6	812780-81-7	812780-82-8	812780-83-9	812780-84-0
812780-85-1	812780-86-2	812780-87-3	812780-88-4	812780-89-5
812780-90-8	812780-91-9	812780-92-0	812780-93-1	812780-94-2
812780-95-3	812780-96-4	812780-97-5	812780-98-6	812780-99-7
812781-00-3	812781-01-4	812781-02-5	812781-03-6	812781-04-7
812781-05-8	812781-06-9	812781-07-0	812781-08-1	812781-09-2
812781-10-5	812781-11-6	812781-12-7	812781-13-8	812781-14-9
812781-15-0	812781-16-1	812781-17-2	812781-18-3	812781-19-4
812781-20-7	812781-21-8	812781-22-9	812781-23-0	812781-24-1
812781-25-2	812781-26-3	812781-27-4	812781-28-5	812781-29-6
812781-30-9	812781-31-0	812781-32-1	812781-33-2	812781-34-3
812781-35-4	812781-36-5	812781-37-6	812781-38-7	812781-39-8
812781-40-1	812781-41-2	812781-42-3	812781-43-4	812781-44-5
812781-45-6	812781-46-7	812781-47-8	812781-48-9	812781-49-0
812781-50-3	812781-51-4	812781-52-5	812781-53-6	812781-54-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812781-55-8	812781-56-9	812781-57-0	812781-58-1	812781-59-2
	812781-60-5	812781-61-6	812781-62-7	812781-63-8	812781-64-9
	812781-65-0	812781-66-1	812781-67-2	812781-68-3	812781-69-4
	812781-70-7	812781-71-8	812781-72-9	812781-73-0	812781-74-1
	812781-75-2	812781-76-3	812781-77-4	812781-78-5	812781-79-6
	812781-80-9	812781-81-0	812781-82-1	812781-83-2	812781-84-3
	812781-85-4	812781-86-5	812781-87-6	812781-88-7	812781-89-8
	812781-90-1	812781-91-2	812781-92-3	812781-93-4	812781-94-5
	812781-95-6	812781-96-7	812781-97-8	812781-98-9	812781-99-0
	812782-00-6	812782-01-7	812782-02-8	812782-03-9	812782-04-0
	812782-05-1	812782-06-2	812782-07-3	812782-08-4	812782-09-5
	812782-10-8	812782-11-9	812782-12-0	812782-13-1	812782-14-2
	812782-15-3	812782-16-4	812782-17-5	812782-18-6	812782-19-7
	812782-20-0	812782-21-1	812782-22-2	812782-23-3	812782-24-4
	812782-25-5	812782-26-6	812782-27-7	812782-28-8	812782-29-9
	812782-30-2	812782-31-3	812782-32-4	812782-33-5	812782-34-6
	812782-35-7	812782-36-8	812782-37-9	812782-38-0	812782-39-1
	812782-40-4	812782-41-5	812782-42-6	812782-43-7	812782-44-8
	812782-45-9	812782-46-0	812782-47-1	812782-48-2	812782-49-3
	812782-50-6	812782-51-7	812782-52-8	812782-53-9	812782-54-0
	812782-55-1	812782-56-2	812782-57-3	812782-58-4	812782-59-5
	812782-60-8	812782-61-9	812782-62-0	812782-63-1	812782-64-2

812782-65-3	812782-66-4	812782-67-5	812782-68-6	812782-69-7
812782-70-0	812782-71-1	812782-72-2	812782-73-3	812782-74-4
812782-75-5	812782-76-6	812782-77-7	812782-78-8	812782-79-9
812782-80-2	812782-81-3	812782-82-4	812782-83-5	812782-84-6
812782-85-7	812782-86-8	812782-87-9	812782-88-0	812782-89-1
812782-90-4	812782-91-5	812782-92-6	812782-93-7	812782-94-8
812782-95-9	812782-96-0	812782-97-1	812782-98-2	812782-99-3
812783-00-9	812783-01-0	812783-02-1	812783-03-2	812783-04-3
812783-05-4	812783-06-5	812783-07-6	812783-08-7	812783-09-8
812783-10-1	812783-11-2	812783-12-3	812783-13-4	812783-14-5
812783-15-6	812783-16-7	812783-17-8	812783-18-9	812783-19-0
812783-20-3	812783-21-4	812783-22-5	812783-23-6	812783-24-7
812783-25-8	812783-26-9	812783-27-0	812783-28-1	812783-29-2
812783-30-5	812783-31-6	812783-32-7	812783-33-8	812783-34-9
812783-35-0	812783-36-1	812783-37-2	812783-38-3	812783-39-4
812783-40-7	812783-41-8	812783-42-9	812783-43-0	812783-44-1
812783-45-2	812783-46-3	812783-47-4	812783-48-5	812783-49-6
812783-50-9	812783-51-0	812783-52-1	812783-53-2	812783-54-3
812783-55-4	812783-56-5	812783-57-6	812783-58-7	812783-59-8
812783-60-1	812783-61-2	812783-62-3	812783-63-4	812783-64-5
812783-65-6	812783-66-7	812783-67-8	812783-68-9	812783-69-0
812783-70-3	812783-71-4	812783-72-5	812783-73-6	812783-74-7
812783-75-8	812783-76-9	812783-77-0	812783-78-1	812783-79-2
812783-80-5	812783-81-6	812783-82-7	812783-83-8	812783-84-9
812783-85-0	812783-86-1	812783-87-2	812783-88-3	812783-89-4

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812783-90-7	812783-91-8	812783-92-9	812783-93-0	812783-94-1
	812783-95-2	812783-96-3	812783-97-4	812783-98-5	812783-99-6
	812784-00-2	812784-01-3	812784-02-4	812784-03-5	812784-04-6
	812784-05-7	812784-06-8	812784-07-9	812784-08-0	812784-09-1
	812784-10-4	812784-11-5	812784-12-6	812784-13-7	812784-14-8
	812784-15-9	812784-16-0	812784-17-1	812784-18-2	812784-19-3
	812784-20-6	812784-21-7	812784-22-8	812784-23-9	812784-24-0
	812784-25-1	812784-26-2	812784-27-3	812784-28-4	812784-29-5
	812784-30-8	812784-31-9	812784-32-0	812784-33-1	812784-34-2
	812784-35-3	812784-36-4	812784-37-5	812784-38-6	812784-39-7
	812784-40-0	812784-41-1	812784-42-2	812784-43-3	812784-44-4
	812784-45-5	812784-46-6	812784-47-7	812784-48-8	812784-49-9
	812784-50-2	812784-51-3	812784-52-4	812784-53-5	812784-54-6
	812784-55-7	812784-56-8	812784-57-9	812784-58-0	812784-59-1
	812784-60-4	812784-61-5	812784-62-6	812784-63-7	812784-64-8
	812784-65-9	812784-66-0	812784-67-1	812784-68-2	812784-69-3
	812784-70-6	812784-71-7	812784-72-8	812784-73-9	812784-74-0
	812784-75-1	812784-76-2	812784-77-3	812784-78-4	812784-79-5
	812784-80-8	812784-81-9	812784-82-0	812784-83-1	812784-84-2
	812784-85-3	812784-86-4	812784-87-5	812784-88-6	812784-89-7
	812784-90-0	812784-91-1	812784-92-2	812784-93-3	812784-94-4
	812784-95-5	812784-96-6	812784-97-7	812784-98-8	812784-99-9
	812785-00-5	812785-01-6	812785-02-7	812785-03-8	812785-04-9
	812785-05-0	812785-06-1	812785-07-2	812785-08-3	812785-09-4
	812785-10-7	812785-11-8	812785-12-9	812785-13-0	812785-14-1
	812785-15-2	812785-16-3	812785-17-4	812785-18-5	812785-19-6
	812785-20-9	812785-21-0	812785-22-1	812785-23-2	812785-24-3
	812785-25-4	812785-26-5	812785-27-6	812785-28-7	812785-29-8
	812785-30-1	812785-31-2	812785-32-3	812785-33-4	812785-34-5
	812785-35-6	812785-36-7	812785-37-8	812785-38-9	812785-39-0
	812785-40-3	812785-41-4	812785-42-5	812785-43-6	812785-44-7
	812785-45-8	812785-46-9	812785-47-0	812785-48-1	812785-49-2

812785-50-5	812785-51-6	812785-52-7	812785-53-8	812785-54-9
812785-55-0	812785-56-1	812785-57-2	812785-58-3	812785-59-4
812785-60-7	812785-61-8	812785-62-9	812785-63-0	812785-64-1
812785-65-2	812785-66-3	812785-67-4	812785-68-5	812785-69-6
812785-70-9	812785-71-0	812785-72-1	812785-73-2	812785-74-3
812785-75-4	812785-76-5	812785-77-6	812785-78-7	812785-79-8
812785-80-1	812785-81-2	812785-82-3	812785-83-4	812785-84-5
812785-85-6	812785-86-7	812785-87-8	812785-88-9	812785-89-0
812785-90-3	812785-91-4	812785-92-5	812785-93-6	812785-94-7
812785-95-8	812785-96-9	812785-97-0	812785-98-1	812785-99-2
812786-00-8	812786-01-9	812786-02-0	812786-03-1	812786-04-2
812786-05-3	812786-06-4	812786-07-5	812786-08-6	812786-09-7
812786-10-0	812786-11-1	812786-12-2	812786-13-3	812786-14-4
812786-15-5	812786-16-6	812786-17-7	812786-18-8	812786-19-9
812786-20-2	812786-21-3	812786-22-4	812786-23-5	812786-24-6

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812786-25-7	812786-26-8	812786-27-9	812786-28-0	812786-29-1
	812786-30-4	812786-31-5	812786-32-6	812786-33-7	812786-34-8
	812786-35-9	812786-36-0	812786-37-1	812786-38-2	812786-39-3
	812786-40-6	812786-41-7	812786-42-8	812786-43-9	812786-44-0
	812786-45-1	812786-46-2	812786-47-3	812786-48-4	812786-49-5
	812786-50-8	812786-51-9	812786-52-0	812786-53-1	812786-54-2
	812786-55-3	812786-56-4	812786-57-5	812786-58-6	812786-59-7
	812786-60-0	812786-61-1	812786-62-2	812786-63-3	812786-64-4
	812786-65-5	812786-66-6	812786-67-7	812786-68-8	812786-69-9
	812786-70-2	812786-71-3	812786-72-4	812786-73-5	812786-74-6
	812786-75-7	812786-76-8	812786-77-9	812786-78-0	812786-79-1
	812786-80-4	812786-81-5	812786-82-6	812786-83-7	812786-84-8
	812786-85-9	812786-86-0	812786-87-1	812786-88-2	812786-89-3
	812786-90-6	812786-91-7	812786-92-8	812786-93-9	812786-94-0
	812786-95-1	812786-96-2	812786-97-3	812786-98-4	812786-99-5
	812787-00-1	812787-01-2	812787-02-3	812787-03-4	812787-04-5
	812787-05-6	812787-06-7	812787-07-8	812787-08-9	812787-09-0
	812787-10-3	812787-11-4	812787-12-5	812787-13-6	812787-14-7
	812787-15-8	812787-16-9	812787-17-0	812787-18-1	812787-19-2
	812787-20-5	812787-21-6	812787-22-7	812787-23-8	812787-24-9
	812787-25-0	812787-26-1	812787-27-2	812787-28-3	812787-29-4
	812787-30-7	812787-31-8	812787-32-9	812787-33-0	812787-34-1
	812787-35-2	812787-36-3	812787-37-4	812787-38-5	812787-39-6
	812787-40-9	812787-41-0	812787-42-1	812787-43-2	812787-44-3
	812787-45-4	812787-46-5	812787-47-6	812787-48-7	812787-49-8
	812787-50-1	812787-51-2	812787-52-3	812787-53-4	812787-54-5
	812787-55-6	812787-56-7	812787-57-8	812787-58-9	812787-59-0
	812787-60-3	812787-61-4	812787-62-5	812787-63-6	812787-64-7
	812787-65-8	812787-66-9	812787-67-0	812787-68-1	812787-69-2
	812787-70-5	812787-71-6	812787-72-7	812787-73-8	812787-74-9
	812787-75-0	812787-76-1	812787-77-2	812787-78-3	812787-79-4
	812787-80-7	812787-81-8	812787-82-9	812787-83-0	812787-84-1
	812787-85-2	812787-86-3	812787-87-4	812787-88-5	812787-89-6
	812787-90-9	812787-91-0	812787-92-1	812787-93-2	812787-94-3
	812787-95-4	812787-96-5	812787-97-6	812787-98-7	812787-99-8
	812788-00-4	812788-01-5	812788-02-6	812788-03-7	812788-04-8
	812788-05-9	812788-06-0	812788-07-1	812788-08-2	812788-09-3
	812788-10-6	812788-11-7	812788-13-9	812788-14-0	812788-15-1
	812788-16-2	812788-17-3	812788-18-4	812788-19-5	812788-20-8
	812788-21-9	812788-22-0	812788-23-1	812788-24-2	812788-25-3
	812788-26-4	812788-27-5	812788-28-6	812788-29-7	812788-30-0
	812788-31-1	812788-32-2	812788-33-3	812788-34-4	812788-35-5

812788-36-6	812788-37-7	812788-39-9	812788-40-2	812788-41-3
812788-42-4	812788-43-5	812788-44-6	812788-46-8	812788-47-9
812788-48-0	812788-49-1	812788-50-4	812788-51-5	812788-52-6
812788-53-7	812788-54-8	812788-55-9	812788-56-0	812788-57-1
812788-58-2	812788-59-3	812788-60-6	812788-61-7	812788-62-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812788-63-9	812788-64-0	812788-66-2	812788-67-3	812788-68-4
	812788-69-5	812788-70-8	812788-71-9	812788-72-0	812788-73-1
	812788-75-3	812788-76-4	812788-77-5	812788-78-6	812788-79-7
	812788-80-0	812788-81-1	812788-82-2	812788-83-3	812788-84-4
	812788-85-5	812788-86-6	812788-87-7	812788-88-8	812788-89-9
	812788-90-2	812788-91-3	812788-92-4	812788-93-5	812788-94-6
	812788-95-7	812788-96-8	812788-97-9	812788-98-0	812788-99-1
	812789-00-7	812789-01-8	812789-02-9	812789-03-0	812789-04-1
	812789-05-2	812789-06-3	812789-07-4	812789-08-5	812789-09-6
	812789-10-9	812789-11-0	812789-12-1	812789-13-2	812789-14-3
	812789-15-4	812789-16-5	812789-17-6	812789-18-7	812789-19-8
	812789-20-1	812789-21-2	812789-22-3	812789-23-4	812789-24-5
	812789-25-6	812789-26-7	812789-27-8	812789-28-9	812789-29-0
	812789-30-3	812789-31-4	812789-32-5	812789-33-6	812789-34-7
	812789-35-8	812789-36-9	812789-37-0	812789-38-1	812789-39-2
	812789-40-5	812789-41-6	812789-42-7	812789-43-8	812789-44-9
	812789-45-0	812789-46-1	812789-47-2	812789-48-3	812789-49-4
	812789-50-7	812789-51-8	812789-52-9	812789-53-0	812789-54-1
	812789-55-2	812789-56-3	812789-57-4	812789-58-5	812789-59-6
	812789-60-9	812789-61-0	812789-62-1	812789-63-2	812789-64-3
	812789-65-4	812789-66-5	812789-67-6	812789-68-7	812789-69-8
	812789-70-1	812789-71-2	812789-72-3	812789-73-4	812789-74-5
	812789-75-6	812789-76-7	812789-77-8	812789-78-9	812789-79-0
	812789-80-3	812789-81-4	812789-82-5	812789-83-6	812789-84-7
	812789-85-8	812789-86-9	812789-87-0	812789-88-1	812789-89-2
	812789-90-5	812789-91-6	812789-92-7	812789-93-8	812789-94-9
	812789-95-0	812789-96-1	812789-97-2	812789-98-3	812789-99-4
	812790-00-4	812790-01-5	812790-02-6	812790-03-7	812790-04-8
	812790-05-9	812790-06-0	812790-07-1	812790-08-2	812790-09-3
	812790-10-6	812790-11-7	812790-12-8	812790-13-9	812790-14-0
	812790-15-1	812790-16-2	812790-17-3	812790-18-4	812790-19-5
	812790-20-8	812790-21-9	812790-22-0	812790-23-1	812790-24-2
	812790-25-3	812790-26-4	812790-27-5	812790-28-6	812790-29-7
	812790-30-0	812790-31-1	812790-32-2	812790-33-3	812790-34-4
	812790-35-5	812790-36-6	812790-37-7	812790-38-8	812790-39-9
	812790-40-2	812790-41-3	812790-42-4	812790-43-5	812790-44-6
	812790-45-7	812790-46-8	812790-47-9	812790-48-0	812790-49-1
	812790-50-4	812790-51-5	812790-52-6	812790-53-7	812790-54-8
	812790-55-9	812790-56-0	812790-57-1	812790-58-2	812790-59-3
	812790-60-6	812790-61-7	812790-62-8	812790-63-9	812790-64-0
	812790-65-1	812790-66-2	812790-67-3	812790-68-4	812790-69-5
	812790-70-8	812790-71-9	812790-72-0	812790-73-1	812790-74-2
	812790-75-3	812790-76-4	812790-77-5	812790-78-6	812790-79-7
	812790-80-0	812790-81-1	812790-82-2	812790-83-3	812790-84-4
	812790-85-5	812790-86-6	812790-87-7	812790-88-8	812790-89-9
	812790-90-2	812790-91-3	812790-92-4	812790-93-5	812790-94-6
	812790-95-7	812790-96-8	812790-97-9	812790-98-0	812790-99-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812791-00-7	812791-01-8	812791-02-9	812791-03-0	812791-04-1
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812791-05-2	812791-06-3	812791-07-4	812791-08-5	812791-09-6
812791-10-9	812791-11-0	812791-12-1	812791-13-2	812791-14-3
812791-15-4	812791-16-5	812791-17-6	812791-18-7	812791-19-8
812791-20-1	812791-21-2	812791-22-3	812791-23-4	812791-24-5
812791-25-6	812791-26-7	812791-27-8	812791-28-9	812791-29-0
812791-30-3	812791-31-4	812791-32-5	812791-33-6	812791-34-7
812791-35-8	812791-36-9	812791-37-0	812791-38-1	812791-39-2
812791-40-5	812791-41-6	812791-42-7	812791-43-8	812791-44-9
812791-45-0	812791-46-1	812791-47-2	812791-48-3	812791-49-4
812791-50-7	812791-51-8	812791-52-9	812791-53-0	812791-54-1
812791-55-2	812791-56-3	812791-57-4	812791-58-5	812791-59-6
812791-60-9	812791-61-0	812791-62-1	812791-63-2	812791-64-3
812791-65-4	812791-66-5	812791-67-6	812791-68-7	812791-69-8
812791-70-1	812791-71-2	812791-72-3	812791-73-4	812791-74-5
812791-75-6	812791-76-7	812791-77-8	812791-78-9	812791-79-0
812791-80-3	812791-81-4	812791-82-5	812791-83-6	812791-84-7
812791-85-8	812791-86-9	812791-87-0	812791-88-1	812791-89-2
812791-90-5	812791-91-6	812791-92-7	812791-93-8	812791-94-9
812791-95-0	812791-96-1	812791-97-2	812791-98-3	812791-99-4
812792-00-0	812792-01-1	812792-02-2	812792-03-3	812792-04-4
812792-05-5	812792-06-6	812792-07-7	812792-08-8	812792-09-9
812792-10-2	812792-11-3	812792-12-4	812792-13-5	812792-14-6
812792-15-7	812792-16-8	812792-17-9	812792-18-0	812792-19-1
812792-20-4	812792-21-5	812792-22-6	812792-23-7	812792-24-8
812792-25-9	812792-26-0	812792-27-1	812792-28-2	812792-29-3
812792-30-6	812792-31-7	812792-32-8	812792-33-9	812792-34-0
812792-35-1	812792-36-2	812792-37-3	812792-38-4	812792-39-5
812792-40-8	812792-41-9	812792-42-0	812792-43-1	812792-44-2
812792-45-3	812792-46-4	812792-47-5	812792-48-6	812792-49-7
812792-50-0	812792-51-1	812792-52-2	812792-53-3	812792-54-4
812792-55-5	812792-56-6	812792-57-7	812792-58-8	812792-59-9
812792-60-2	812792-61-3	812792-62-4	812792-63-5	812792-64-6
812792-65-7	812792-66-8	812792-67-9	812792-68-0	812792-69-1
812792-70-4	812792-71-5	812792-72-6	812792-73-7	812792-74-8
812792-75-9	812792-76-0	812792-77-1	812792-78-2	812792-79-3
812792-80-6	812792-81-7	812792-82-8	812792-83-9	812792-84-0
812792-85-1	812792-86-2	812792-87-3	812792-88-4	812792-89-5
812792-90-8	812792-91-9	812792-92-0	812792-93-1	812792-94-2
812792-95-3	812792-96-4	812792-97-5	812792-98-6	812792-99-7
812793-00-3	812793-01-4	812793-02-5	812793-03-6	812793-04-7
812793-05-8	812793-06-9	812793-07-0	812793-08-1	812793-09-2
812793-10-5	812793-11-6	812793-12-7	812793-13-8	812793-14-9
812793-15-0	812793-16-1	812793-17-2	812793-18-3	812793-19-4
812793-20-7	812793-21-8	812793-22-9	812793-23-0	812793-24-1
812793-25-2	812793-26-3	812793-27-4	812793-28-5	812793-29-6
812793-30-9	812793-31-0	812793-32-1	812793-33-2	812793-34-3

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812793-35-4	812793-36-5	812793-37-6	812793-38-7	812793-39-8
	812793-40-1	812793-41-2	812793-42-3	812793-43-4	812793-44-5
	812793-45-6	812793-46-7	812793-47-8	812793-48-9	812793-49-0
	812793-50-3	812793-51-4	812793-52-5	812793-53-6	812793-54-7
	812793-55-8	812793-56-9	812793-57-0	812793-58-1	812793-59-2
	812793-60-5	812793-61-6	812793-62-7	812793-63-8	812793-64-9
	812793-65-0	812793-66-1	812793-67-2	812793-68-3	812793-69-4
	812793-70-7	812793-71-8	812793-72-9	812793-73-0	812793-74-1
	812793-75-2	812793-76-3	812793-77-4	812793-78-5	812793-79-6
	812793-80-9	812793-81-0	812793-82-1	812793-83-2	812793-84-3
	812793-85-4	812793-86-5	812793-87-6	812793-88-7	812793-89-8

812793-90-1	812793-91-2	812793-92-3	812793-93-4	812793-94-5
812793-95-6	812793-96-7	812793-97-8	812793-98-9	812793-99-0
812794-00-6	812794-01-7	812794-02-8	812794-03-9	812794-04-0
812794-05-1	812794-06-2	812794-07-3	812794-08-4	812794-09-5
812794-10-8	812794-11-9	812794-12-0	812794-13-1	812794-14-2
812794-15-3	812794-16-4	812794-17-5	812794-18-6	812794-19-7
812794-20-0	812794-21-1	812794-22-2	812794-23-3	812794-24-4
812794-25-5	812794-26-6	812794-27-7	812794-28-8	812794-29-9
812794-30-2	812794-31-3	812794-32-4	812794-33-5	812794-34-6
812794-35-7	812794-36-8	812794-37-9	812794-38-0	812794-39-1
812794-40-4	812794-41-5	812794-42-6	812794-43-7	812794-44-8
812794-45-9	812794-46-0	812794-47-1	812794-48-2	812794-49-3
812794-50-6	812794-51-7	812794-52-8	812794-53-9	812794-54-0
812794-55-1	812794-56-2	812794-57-3	812794-58-4	812794-59-5
812794-60-8	812794-61-9	812794-62-0	812794-63-1	812794-64-2
812794-65-3	812794-66-4	812794-67-5	812794-68-6	812794-69-7
812794-70-0	812794-71-1	812794-72-2	812794-73-3	812794-74-4
812794-75-5	812794-76-6	812794-77-7	812794-78-8	812794-79-9
812794-80-2	812794-81-3	812794-82-4	812794-83-5	812794-84-6
812794-85-7	812794-86-8	812794-87-9	812794-88-0	812794-89-1
812794-90-4	812794-91-5	812794-92-6	812794-93-7	812794-94-8
812794-95-9	812794-96-0	812794-97-1	812794-98-2	812794-99-3
812795-00-9	812795-01-0	812795-02-1	812795-03-2	812795-04-3
812795-05-4	812795-06-5	812795-07-6	812795-08-7	812795-09-8
812795-10-1	812795-11-2	812795-12-3	812795-13-4	812795-14-5
812795-15-6	812795-16-7	812795-17-8	812795-18-9	812795-19-0
812795-20-3	812795-21-4	812795-22-5	812795-23-6	812795-24-7
812795-25-8	812795-26-9	812795-27-0	812795-28-1	812795-29-2
812795-30-5	812795-31-6	812795-32-7	812795-33-8	812795-34-9
812795-35-0	812795-36-1	812795-37-2	812795-38-3	812795-39-4
812795-40-7	812795-41-8	812795-42-9	812795-43-0	812795-44-1
812795-45-2	812795-46-3	812795-47-4	812795-48-5	812795-49-6
812795-50-9	812795-51-0	812795-52-1	812795-53-2	812795-54-3
812795-55-4	812795-56-5	812795-57-6	812795-58-7	812795-59-8
812795-60-1	812795-61-2	812795-62-3	812795-63-4	812795-64-5
812795-65-6	812795-66-7	812795-67-8	812795-68-9	812795-69-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 812795-70-3	812795-71-4	812795-72-5	812795-73-6	812795-74-7
812795-75-8	812795-76-9	812795-77-0	812795-78-1	812795-79-2
812795-80-5	812795-81-6	812795-82-7	812795-83-8	812795-84-9
812795-85-0	812795-86-1	812795-87-2	812795-88-3	812795-89-4
812795-90-7	812795-91-8	812795-92-9	812795-93-0	812795-94-1
812795-95-2	812795-96-3	812795-97-4	812795-98-5	812795-99-6
812796-00-2	812796-01-3	812796-02-4	812796-03-5	812796-04-6
812796-05-7	812796-06-8	812796-07-9	812796-08-0	812796-09-1
812796-10-4	812796-11-5	812796-12-6	812796-13-7	812796-14-8
812796-15-9	812796-16-0	812796-17-1	812796-18-2	812796-19-3
812796-20-6	812796-21-7	812796-22-8	812796-23-9	812796-24-0
812796-25-1	812796-26-2	812796-27-3	812796-28-4	812796-29-5
812796-30-8	812796-31-9	812796-32-0	812796-33-1	812796-34-2
812796-35-3	812796-36-4	812796-37-5	812796-38-6	812796-39-7
812796-40-0	812796-41-1	812796-42-2	812796-43-3	812796-44-4
812796-45-5	812796-46-6	812796-47-7	812796-48-8	812796-49-9
812796-50-2	812796-51-3	812796-52-4	812796-53-5	812796-54-6
812796-55-7	812796-56-8	812796-57-9	812796-58-0	812796-59-1
812796-60-4	812796-61-5	812796-62-6	812796-63-7	812796-64-8
812796-65-9	812796-66-0	812796-67-1	812796-68-2	812796-69-3
812796-70-6	812796-71-7	812796-72-8	812796-73-9	812796-74-0

812796-75-1	812796-76-2	812796-77-3	812796-78-4	812796-79-5
812796-80-8	812796-81-9	812796-82-0	812796-83-1	812796-84-2
812796-85-3	812796-86-4	812796-87-5	812796-88-6	812796-89-7
812796-90-0	812796-91-1	812796-92-2	812796-93-3	812796-94-4
812796-95-5	812796-96-6	812796-97-7	812796-98-8	812796-99-9
812797-00-5	812797-01-6	812797-02-7	812797-03-8	812797-04-9
812797-05-0	812797-06-1	812797-07-2	812797-08-3	812797-09-4
812797-10-7	812797-11-8	812797-12-9	812797-13-0	812797-14-1
812797-15-2	812797-16-3	812797-17-4	812797-18-5	812797-19-6
812797-20-9	812797-21-0	812797-22-1	812797-23-2	812797-24-3
812797-25-4	812797-26-5	812797-27-6	812797-28-7	812797-29-8
812797-30-1	812797-31-2	812797-32-3	812797-33-4	812797-34-5
812797-35-6	812797-36-7	812797-37-8	812797-38-9	812797-39-0
812797-40-3	812797-41-4	812797-42-5	812797-43-6	812797-44-7
812797-45-8	812797-46-9	812797-47-0	812797-48-1	812797-49-2
812797-50-5	812797-51-6	812797-52-7	812797-53-8	812797-54-9
812797-55-0	812797-56-1	812797-57-2	812797-58-3	812797-59-4
812797-60-7	812797-61-8	812797-62-9	812797-63-0	812797-64-1
812797-65-2	812797-66-3	812797-67-4	812797-68-5	812797-69-6
812797-70-9	812797-71-0	812797-72-1	812797-73-2	812797-74-3
812797-75-4	812797-76-5	812797-77-6	812797-78-7	812797-79-8
812797-80-1	812797-81-2	812797-82-3	812797-83-4	812797-84-5
812797-85-6	812797-86-7	812797-87-8	812797-88-9	812797-89-0
812797-90-3	812797-91-4	812797-92-5	812797-93-6	812797-94-7
812797-95-8	812797-96-9	812797-97-0	812797-98-1	812797-99-2
812798-00-8	812798-01-9	812798-02-0	812798-03-1	812798-04-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812798-05-3	812798-06-4	812798-07-5	812798-08-6	812798-09-7
	812798-10-0	812798-11-1	812798-12-2	812798-13-3	812798-14-4
	812798-15-5	812798-16-6	812798-17-7	812798-18-8	812798-19-9
	812798-20-2	812798-21-3	812798-22-4	812798-23-5	812798-24-6
	812798-25-7	812798-26-8	812798-27-9	812798-28-0	812798-29-1
	812798-30-4	812798-31-5	812798-32-6	812798-33-7	812798-34-8
	812798-35-9	812798-36-0	812798-37-1	812798-38-2	812798-39-3
	812798-40-6	812798-41-7	812798-42-8	812798-43-9	812798-44-0
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	812800-40-1	812800-41-2	812800-42-3	812800-43-4	812800-44-5
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	812800-80-9	812800-81-0			

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 9005-53-2P, Lignin, preparation 11078-30-1P, Galactomannan

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 7723-14-0, Phosphorus, biological studies 7727-37-9, Nitrogen, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(improved use and/or uptake of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

L34 ANSWER 9 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:5204 HCAPLUS

DN 142:69949

ED Entered STN: 05 Jan 2005

TI Nucleic acid molecules and encoded proteins associated with maize and their uses for plant improvement

IN La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David; Cao, Yongwei

PA USA

SO U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DT Patent

LA English

IC C07H021-04; A01H001-00; C12N015-82; C12N005-04

NCL 435069100; 435419000; 435468000; 530370000; 536023600; 800278000

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 11

FAN.CNT 76

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004214272	A1	20041028	US 2003-425115	20030428 <--
	US 2004214272	A1	20041028	US 2003-425115	20030428 <--
PRAI	US 2003-425115	A	20030428	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004214272	IC	C07H021-04IC A01H001-00IC C12N015-82IC C12N005-04
	NCL	435069100; 435419000; 435468000; 530370000; 536023600; 800278000

AB Recombinant polynucleotides useful for improvement of plants are provided. In particular, a total of 184,663 cDNA sequences are provided from cDNA libraries generated from Zea mays (corn). The polypeptides encoded by these polynucleotide sequences are also provided. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol. based methods. Functions of polypeptides are determined using a hierarchical classification tool (FunCAT) and five public classification schemes (GO_BP, GO_CC, GO_MF, KEGG, and EC) and one internal Monsanto classification scheme (POI). The disclosed recombinant polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of 74 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

ST plant protein cDNA sequence transformation; corn cDNA sequence plant transformation

IT Stress, plant
(cold, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Stress, plant
(heat, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Recombination, genetic
(homologous, improved rate of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Cell cycle
(improved growth rate by manipulation of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Proteins
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(improved production of seed; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Growth regulators, plant
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Pathogen
(improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Carbohydrates, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)

- (improved use and/or uptake of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Disease resistance, plant
Growth and development, plant
Herbicide resistance
Photosynthesis, biological
(improvement of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Embryophyta
Protein sequences
Transformation, genetic
Zea mays
cDNA sequences
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Proteins
cDNA
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Transcription factors
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Stress, plant
(osmotic, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Stress, plant
(water deficiency, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT 811795-59-2 811795-60-5 811795-61-6 811795-62-7 811795-63-8
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811924-00-2	811924-01-3	811924-02-4	811924-03-5	811924-04-6
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	811924-80-8	811924-81-9	811924-82-0	811924-83-1	811924-84-2
	811924-85-3	811924-86-4	811924-87-5	811924-88-6	811924-89-7
	811924-90-0	811924-91-1	811924-92-2	811924-93-3	811924-94-4
	811924-95-5	811924-96-6	811924-97-7	811924-98-8	811924-99-9
	811925-00-5	811925-01-6	811925-02-7	811925-03-8	811925-04-9
	811925-05-0	811925-06-1	811925-07-2	811925-08-3	811925-09-4
	811925-10-7	811925-11-8	811925-12-9	811925-13-0	811925-14-1
	811925-15-2	811925-16-3	811925-17-4	811925-18-5	811925-19-6
	811925-20-9	811925-21-0	811925-22-1	811925-23-2	811925-24-3
	811925-25-4	811925-26-5	811925-27-6	811925-28-7	811925-29-8
	811925-30-1	811925-31-2	811925-32-3	811925-33-4	811925-34-5
	811925-35-6	811925-36-7	811925-37-8	811925-38-9	811925-39-0
	811925-40-3	811925-41-4	811925-42-5	811925-43-6	811925-44-7
	811925-45-8	811925-46-9	811925-47-0	811925-48-1	811925-49-2
	811925-50-5	811925-51-6	811925-52-7	811925-53-8	811925-54-9
	811925-55-0	811925-56-1	811925-57-2	811925-58-3	811925-59-4
	811925-60-7	811925-61-8	811925-62-9	811925-63-0	811925-64-1
	811925-65-2	811925-66-3	811925-67-4	811925-68-5	811925-69-6
	811925-70-9	811925-71-0	811925-72-1	811925-73-2	811925-74-3
	811925-75-4	811925-76-5	811925-77-6	811925-78-7	811925-79-8
	811925-80-1	811925-81-2	811925-82-3	811925-83-4	811925-84-5
	811925-85-6	811925-86-7	811925-87-8	811925-88-9	811925-89-0
	811925-90-3	811925-91-4	811925-92-5	811925-93-6	811925-94-7
	811925-95-8	811925-96-9	811925-97-0	811925-98-1	811925-99-2
	811926-00-8	811926-01-9	811926-02-0	811926-03-1	811926-04-2
	811926-05-3	811926-06-4	811926-07-5	811926-08-6	811926-09-7
	811926-10-0	811926-11-1	811926-12-2	811926-13-3	811926-14-4
	811926-15-5	811926-16-6	811926-17-7	811926-18-8	811926-19-9
	811926-20-2	811926-21-3	811926-22-4	811926-23-5	811926-24-6
	811926-25-7	811926-26-8	811926-27-9	811926-28-0	811926-29-1
	811926-30-4	811926-31-5	811926-32-6	811926-33-7	811926-34-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811926-35-9	811926-36-0	811926-37-1	811926-38-2	811926-39-3
	811926-40-6	811926-41-7	811926-42-8	811926-43-9	811926-44-0
	811926-45-1	811926-46-2	811926-47-3	811926-48-4	811926-49-5
	811926-50-8	811926-51-9	811926-52-0	811926-53-1	811926-54-2
	811926-55-3	811926-56-4	811926-57-5	811926-58-6	811926-59-7
	811926-60-0	811926-61-1	811926-62-2	811926-63-3	811926-64-4
	811926-65-5	811926-66-6	811926-67-7	811926-68-8	811926-69-9
	811926-70-2	811926-71-3	811926-72-4	811926-73-5	811926-74-6
	811926-75-7	811926-76-8	811926-77-9	811926-78-0	811926-79-1
	811926-80-4	811926-81-5	811926-82-6	811926-83-7	811926-84-8
	811926-85-9	811926-86-0	811926-87-1	811926-88-2	811926-89-3
	811926-90-6	811926-91-7	811926-92-8	811926-93-9	811926-94-0
	811926-95-1	811926-96-2	811926-97-3	811926-98-4	811926-99-5
	811927-00-1	811927-01-2	811927-02-3	811927-03-4	811927-04-5
	811927-05-6	811927-06-7	811927-07-8	811927-08-9	811927-09-0
	811927-10-3	811927-11-4	811927-12-5	811927-13-6	811927-14-7
	811927-15-8	811927-16-9	811927-17-0	811927-18-1	811927-19-2
	811927-20-5	811927-21-6	811927-22-7	811927-23-8	811927-24-9
	811927-25-0	811927-26-1	811927-27-2	811927-28-3	811927-29-4
	811927-30-7	811927-31-8	811927-32-9	811927-33-0	811927-34-1
	811927-35-2	811927-36-3	811927-37-4	811927-38-5	811927-39-6
	811927-40-9	811927-41-0	811927-42-1	811927-43-2	811927-44-3
	811927-45-4	811927-46-5	811927-47-6	811927-48-7	811927-49-8
	811927-50-1	811927-51-2	811927-52-3	811927-53-4	811927-54-5
	811927-55-6	811927-56-7	811927-57-8	811927-58-9	811927-59-0
	811927-60-3	811927-61-4	811927-62-5	811927-63-6	811927-64-7
	811927-65-8	811927-66-9	811927-67-0	811927-68-1	811927-69-2
	811927-70-5	811927-71-6	811927-72-7	811927-73-8	811927-74-9
	811927-75-0	811927-76-1	811927-77-2	811927-78-3	811927-79-4
	811927-80-7	811927-81-8	811927-82-9	811927-83-0	811927-84-1
	811927-85-2	811927-86-3	811927-87-4	811927-88-5	811927-89-6
	811927-90-9	811927-91-0	811927-92-1	811927-93-2	811927-94-3
	811927-95-4	811927-96-5	811927-97-6	811927-98-7	811927-99-8
	811928-00-4	811928-01-5	811928-02-6	811928-03-7	811928-04-8
	811928-05-9	811928-06-0	811928-07-1	811928-08-2	811928-09-3
	811928-10-6	811928-11-7	811928-12-8	811928-13-9	811928-14-0
	811928-15-1	811928-16-2	811928-17-3	811928-18-4	811928-19-5
	811928-20-8	811928-21-9	811928-22-0	811928-23-1	811928-24-2
	811928-25-3	811928-26-4	811928-27-5	811928-28-6	811928-29-7
	811928-30-0	811928-31-1	811928-32-2	811928-33-3	811928-34-4
	811928-35-5	811928-36-6	811928-37-7	811928-38-8	811928-39-9
	811928-40-2	811928-41-3	811928-42-4	811928-43-5	811928-44-6
	811928-45-7	811928-46-8	811928-47-9	811928-48-0	811928-49-1
	811928-50-4	811928-51-5	811928-52-6	811928-53-7	811928-54-8
	811928-55-9	811928-56-0	811928-57-1	811928-58-2	811928-59-3
	811928-60-6	811928-61-7	811928-62-8	811928-63-9	811928-64-0
	811928-65-1	811928-66-2	811928-67-3	811928-68-4	811928-69-5

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811928-70-8	811928-71-9	811928-72-0	811928-73-1	811928-74-2
	811928-75-3	811928-76-4	811928-77-5	811928-78-6	811928-79-7
	811928-80-0	811928-81-1	811928-82-2	811928-83-3	811928-84-4
	811928-85-5	811928-86-6	811928-87-7	811928-88-8	811928-89-9
	811928-90-2	811928-91-3	811928-92-4	811928-93-5	811928-94-6
	811928-95-7	811928-96-8	811928-97-9	811928-98-0	811928-99-1

811929-00-7	811929-01-8	811929-02-9	811929-03-0	811929-04-1
811929-05-2	811929-06-3	811929-07-4	811929-08-5	811929-09-6
811929-10-9	811929-11-0	811929-12-1	811929-13-2	811929-14-3
811929-15-4	811929-16-5	811929-17-6	811929-18-7	811929-19-8
811929-20-1	811929-21-2	811929-22-3	811929-23-4	811929-24-5
811929-25-6	811929-26-7	811929-27-8	811929-28-9	811929-29-0
811929-30-3	811929-31-4	811929-32-5	811929-33-6	811929-34-7
811929-35-8	811929-36-9	811929-37-0	811929-38-1	811929-39-2
811929-40-5	811929-41-6	811929-42-7	811929-43-8	811929-44-9
811929-45-0	811929-46-1	811929-47-2	811929-48-3	811929-49-4
811929-50-7	811929-51-8	811929-52-9	811929-53-0	811929-54-1
811929-55-2	811929-56-3	811929-57-4	811929-58-5	811929-59-6
811929-60-9	811929-61-0	811929-62-1	811929-63-2	811929-64-3
811929-65-4	811929-66-5	811929-67-6	811929-68-7	811929-69-8
811929-70-1	811929-71-2	811929-72-3	811929-73-4	811929-74-5
811929-75-6	811929-76-7	811929-77-8	811929-78-9	811929-79-0
811929-80-3	811929-81-4	811929-82-5	811929-83-6	811929-84-7
811929-85-8	811929-86-9	811929-87-0	811929-88-1	811929-89-2
811929-90-5	811929-91-6	811929-92-7	811929-93-8	811929-94-9
811929-95-0	811929-96-1	811929-97-2	811929-98-3	811929-99-4
811930-00-4	811930-01-5	811930-02-6	811930-03-7	811930-04-8
811930-05-9	811930-06-0	811930-07-1	811930-08-2	811930-09-3
811930-10-6	811930-11-7	811930-12-8	811930-13-9	811930-14-0
811930-15-1	811930-16-2	811930-17-3	811930-18-4	811930-19-5
811930-20-8	811930-21-9	811930-22-0	811930-23-1	811930-24-2
811930-25-3	811930-26-4	811930-27-5	811930-28-6	811930-29-7
811930-30-0	811930-31-1	811930-32-2	811930-33-3	811930-34-4
811930-35-5	811930-36-6	811930-37-7	811930-38-8	811930-39-9
811930-40-2	811930-41-3	811930-42-4	811930-43-5	811930-44-6
811930-45-7	811930-46-8	811930-47-9	811930-48-0	811930-49-1
811930-50-4	811930-51-5	811930-52-6	811930-53-7	811930-54-8
811930-55-9	811930-56-0	811930-57-1	811930-58-2	811930-59-3
811930-60-6	811930-61-7	811930-62-8	811930-63-9	811930-64-0
811930-65-1	811930-66-2	811930-67-3	811930-68-4	811930-69-5
811930-70-8	811930-71-9	811930-72-0	811930-73-1	811930-74-2
811930-75-3	811930-76-4	811930-77-5	811930-78-6	811930-79-7
811930-80-0	811930-81-1	811930-82-2	811930-83-3	811930-84-4
811930-85-5	811930-86-6	811930-87-7	811930-88-8	811930-89-9
811930-90-2	811930-91-3	811930-92-4	811930-93-5	811930-94-6
811930-95-7	811930-96-8	811930-97-9	811930-98-0	811930-99-1
811931-00-7	811931-01-8	811931-02-9	811931-03-0	811931-04-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811931-05-2	811931-06-3	811931-07-4	811931-08-5	811931-09-6
	811931-10-9	811931-11-0	811931-12-1	811931-13-2	811931-14-3
	811931-15-4	811931-16-5	811931-17-6	811931-18-7	811931-19-8
	811931-20-1	811931-21-2	811931-22-3	811931-23-4	811931-24-5
	811931-25-6	811931-26-7	811931-27-8	811931-28-9	811931-29-0
	811931-30-3	811931-31-4	811931-32-5	811931-33-6	811931-34-7
	811931-35-8	811931-36-9	811931-37-0	811931-38-1	811931-39-2
	811931-40-5	811931-41-6	811931-42-7	811931-43-8	811931-44-9
	811931-45-0	811931-46-1	811931-47-2	811931-48-3	811931-49-4
	811931-50-7	811931-51-8	811931-52-9	811931-53-0	811931-54-1
	811931-55-2	811931-56-3	811931-57-4	811931-58-5	811931-59-6
	811931-60-9	811931-61-0	811931-62-1	811931-63-2	811931-64-3
	811931-65-4	811931-66-5	811931-67-6	811931-68-7	811931-69-8
	811931-70-1	811931-71-2	811931-72-3	811931-73-4	811931-74-5
	811931-75-6	811931-76-7	811931-77-8	811931-78-9	811931-79-0
	811931-80-3	811931-81-4	811931-82-5	811931-83-6	811931-84-7

811931-85-8	811931-86-9	811931-87-0	811931-88-1	811931-89-2
811931-90-5	811931-91-6	811931-92-7	811931-93-8	811931-94-9
811931-95-0	811931-96-1	811931-97-2	811931-98-3	811931-99-4
811932-00-0	811932-01-1	811932-02-2	811932-03-3	811932-04-4
811932-05-5	811932-06-6	811932-07-7	811932-08-8	811932-09-9
811932-10-2	811932-11-3	811932-12-4	811932-13-5	811932-14-6
811932-15-7	811932-16-8	811932-17-9	811932-18-0	811932-19-1
811932-20-4	811932-21-5	811932-22-6	811932-23-7	811932-24-8
811932-25-9	811932-26-0	811932-27-1	811932-28-2	811932-29-3
811932-30-6	811932-31-7	811932-32-8	811932-33-9	811932-34-0
811932-35-1	811932-36-2	811932-37-3	811932-38-4	811932-39-5
811932-40-8	811932-41-9	811932-42-0	811932-43-1	811932-44-2
811932-45-3	811932-46-4	811932-47-5	811932-48-6	811932-49-7
811932-50-0	811932-51-1	811932-52-2	811932-53-3	811932-54-4
811932-55-5	811932-56-6	811932-57-7	811932-58-8	811932-59-9
811932-60-2	811932-61-3	811932-62-4	811932-63-5	811932-64-6
811932-65-7	811932-66-8	811932-67-9	811932-68-0	811932-69-1
811932-70-4	811932-71-5	811932-72-6	811932-73-7	811932-74-8
811932-75-9	811932-76-0	811932-77-1	811932-78-2	811932-79-3
811932-80-6	811932-81-7	811932-82-8	811932-83-9	811932-84-0
811932-85-1	811932-86-2	811932-87-3	811932-88-4	811932-89-5
811932-90-8	811932-91-9	811932-92-0	811932-93-1	811932-94-2
811932-95-3	811932-96-4	811932-97-5	811932-98-6	811932-99-7
811933-00-3	811933-01-4	811933-02-5	811933-03-6	811933-04-7
811933-05-8	811933-06-9	811933-07-0	811933-08-1	811933-09-2
811933-10-5	811933-11-6	811933-12-7	811933-13-8	811933-14-9
811933-15-0	811933-16-1	811933-17-2	811933-18-3	811933-19-4
811933-20-7	811933-21-8	811933-22-9	811933-23-0	811933-24-1
811933-25-2	811933-26-3	811933-27-4	811933-28-5	811933-29-6
811933-30-9	811933-31-0	811933-32-1	811933-33-2	811933-34-3
811933-35-4	811933-36-5	811933-37-6	811933-38-7	811933-39-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811933-40-1	811933-41-2	811933-42-3	811933-43-4	811933-44-5
	811933-45-6	811933-46-7	811933-47-8	811933-48-9	811933-49-0
	811933-50-3	811933-51-4	811933-52-5	811933-53-6	811933-54-7
	811933-55-8	811933-56-9	811933-57-0	811933-58-1	811933-59-2
	811933-60-5	811933-61-6	811933-62-7	811933-63-8	811933-64-9
	811933-65-0	811933-66-1	811933-67-2	811933-68-3	811933-69-4
	811933-70-7	811933-71-8	811933-72-9	811933-73-0	811933-74-1
	811933-75-2	811933-76-3	811933-77-4	811933-78-5	811933-79-6
	811933-80-9	811933-81-0	811933-82-1	811933-83-2	811933-84-3
	811933-85-4	811933-86-5	811933-87-6	811933-88-7	811933-89-8
	811933-90-1	811933-91-2	811933-92-3	811933-93-4	811933-94-5
	811933-95-6	811933-96-7	811933-97-8	811933-98-9	811933-99-0
	811934-00-6	811934-01-7	811934-02-8	811934-03-9	811934-04-0
	811934-05-1	811934-06-2	811934-07-3	811934-08-4	811934-09-5
	811934-10-8	811934-11-9	811934-12-0	811934-13-1	811934-14-2
	811934-15-3	811934-16-4	811934-17-5	811934-18-6	811934-19-7
	811934-20-0	811934-21-1	811934-22-2	811934-23-3	811934-24-4
	811934-25-5	811934-26-6	811934-27-7	811934-28-8	811934-29-9
	811934-30-2	811934-31-3	811934-32-4	811934-33-5	811934-34-6
	811934-35-7	811934-36-8	811934-37-9	811934-38-0	811934-39-1
	811934-40-4	811934-41-5	811934-42-6	811934-43-7	811934-44-8
	811934-45-9	811934-46-0	811934-47-1	811934-48-2	811934-49-3
	811934-50-6	811934-51-7	811934-52-8	811934-53-9	811934-54-0
	811934-55-1	811934-56-2	811934-57-3	811934-58-4	811934-59-5
	811934-60-8	811934-61-9	811934-62-0	811934-63-1	811934-64-2
	811934-65-3	811934-66-4	811934-67-5	811934-68-6	811934-69-7
					811934-70-0

811934-71-1	811934-72-2	811934-73-3	811934-74-4	811934-75-5
811934-76-6	811934-77-7	811934-78-8	811934-79-9	811934-80-2
811934-81-3	811934-82-4	811934-83-5	811934-84-6	811934-85-7
811934-86-8	811934-87-9	811934-88-0	811934-89-1	811934-90-4
811934-91-5	811934-92-6	811934-93-7	811934-94-8	811934-95-9
811934-96-0	811934-97-1	811934-98-2	811934-99-3	811935-00-9
811935-01-0	811935-02-1	811935-03-2	811935-04-3	811935-05-4
811935-06-5	811935-07-6	811935-08-7	811935-09-8	811935-10-1
811935-11-2	811935-12-3	811935-13-4	811935-14-5	811935-15-6
811935-16-7	811935-17-8	811935-18-9	811935-19-0	811935-20-3
811935-21-4	811935-22-5	811935-23-6	811935-24-7	811935-25-8
811935-26-9	811935-27-0	811935-28-1	811935-29-2	811935-30-5
811935-31-6	811935-32-7	811935-33-8	811935-34-9	811935-35-0
811935-36-1	811935-37-2	811935-38-3	811935-39-4	811935-40-7
811935-41-8	811935-42-9	811935-43-0	811935-44-1	811935-45-2
811935-46-3	811935-47-4	811935-48-5	811935-49-6	811935-50-9
811935-51-0	811935-52-1	811935-53-2	811935-54-3	811935-55-4
811935-56-5	811935-57-6	811935-58-7	811935-59-8	811935-60-1
811935-61-2	811935-62-3	811935-63-4	811935-64-5	811935-65-6
811935-66-7	811935-67-8	811935-68-9	811935-69-0	811935-70-3
811935-71-4	811935-72-5	811935-73-6	811935-74-7	811935-75-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811935-76-9	811935-77-0	811935-78-1	811935-79-2	811935-80-5
	811935-81-6	811935-82-7	811935-83-8	811935-84-9	811935-85-0
	811935-86-1	811935-87-2	811935-88-3	811935-89-4	811935-90-7
	811935-91-8	811935-92-9	811935-93-0	811935-94-1	811935-95-2
	811935-96-3	811935-97-4	811935-98-5	811935-99-6	811936-00-2
	811936-01-3	811936-02-4	811936-03-5	811936-04-6	811936-05-7
	811936-06-8	811936-07-9	811936-08-0	811936-09-1	811936-10-4
	811936-11-5	811936-12-6	811936-13-7	811936-14-8	811936-15-9
	811936-16-0	811936-17-1	811936-18-2	811936-19-3	811936-20-6
	811936-21-7	811936-22-8	811936-23-9	811936-24-0	811936-25-1
	811936-26-2	811936-27-3	811936-28-4	811936-29-5	811936-30-8
	811936-31-9	811936-32-0	811936-33-1	811936-34-2	811936-35-3
	811936-36-4	811936-37-5	811936-38-6	811936-39-7	811936-40-0
	811936-41-1	811936-42-2	811936-43-3	811936-44-4	811936-45-5
	811936-46-6	811936-47-7	811936-48-8	811936-49-9	811936-50-2
	811936-51-3	811936-52-4	811936-53-5	811936-54-6	811936-55-7
	811936-56-8	811936-57-9	811936-58-0	811936-59-1	811936-60-4
	811936-61-5	811936-62-6	811936-63-7	811936-64-8	811936-65-9
	811936-66-0	811936-67-1	811936-68-2	811936-69-3	811936-70-6
	811936-71-7	811936-72-8	811936-73-9	811936-74-0	811936-75-1
	811936-76-2	811936-77-3	811936-78-4	811936-79-5	811936-80-8
	811936-81-9	811936-82-0	811936-83-1	811936-84-2	811936-85-3
	811936-86-4	811936-87-5	811936-88-6	811936-89-7	811936-90-0
	811936-91-1	811936-92-2	811936-93-3	811936-94-4	811936-95-5
	811936-96-6	811936-97-7	811936-98-8	811936-99-9	811937-00-5
	811937-01-6	811937-02-7	811937-03-8	811937-04-9	811937-05-0
	811937-06-1	811937-07-2	811937-08-3	811937-09-4	811937-10-7
	811937-11-8	811937-12-9	811937-13-0	811937-14-1	811937-15-2
	811937-16-3	811937-17-4	811937-18-5	811937-19-6	811937-20-9
	811937-21-0	811937-22-1	811937-23-2	811937-24-3	811937-25-4
	811937-26-5	811937-27-6	811937-28-7	811937-29-8	811937-30-1
	811937-31-2	811937-32-3	811937-33-4	811937-34-5	811937-35-6
	811937-36-7	811937-37-8	811937-38-9	811937-39-0	811937-40-3
	811937-41-4	811937-42-5	811937-43-6	811937-44-7	811937-45-8
	811937-46-9	811937-47-0	811937-48-1	811937-49-2	811937-50-5
	811937-51-6	811937-52-7	811937-53-8	811937-54-9	811937-55-0

811937-56-1	811937-57-2	811937-58-3	811937-59-4	811937-60-7
811937-61-8	811937-62-9	811937-63-0	811937-64-1	811937-65-2
811937-66-3	811937-67-4	811937-68-5	811937-69-6	811937-70-9
811937-71-0	811937-72-1	811937-73-2	811937-74-3	811937-75-4
811937-76-5	811937-77-6	811937-78-7	811937-79-8	811937-80-1
811937-81-2	811937-82-3	811937-83-4	811937-84-5	811937-85-6
811937-86-7	811937-87-8	811937-88-9	811937-89-0	811937-90-3
811937-91-4	811937-92-5	811937-93-6	811937-94-7	811937-95-8
811937-96-9	811937-97-0	811937-98-1	811937-99-2	811938-00-8
811938-01-9	811938-02-0	811938-03-1	811938-04-2	811938-05-3
811938-06-4	811938-07-5	811938-08-6	811938-09-7	811938-10-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811938-11-1	811938-12-2	811938-13-3	811938-14-4	811938-15-5
	811938-16-6	811938-17-7	811938-18-8	811938-19-9	811938-20-2
	811938-21-3	811938-22-4	811938-23-5	811938-24-6	811938-25-7
	811938-26-8	811938-27-9	811938-28-0	811938-29-1	811938-30-4
	811938-31-5	811938-32-6	811938-33-7	811938-34-8	811938-35-9
	811938-36-0	811938-37-1	811938-38-2	811938-39-3	811938-40-6
	811938-41-7	811938-42-8	811938-43-9	811938-44-0	811938-45-1
	811938-46-2	811938-47-3	811938-48-4	811938-49-5	811938-50-8
	811938-51-9	811938-52-0	811938-53-1	811938-54-2	811938-55-3
	811938-56-4	811938-57-5	811938-58-6	811938-59-7	811938-60-0
	811938-61-1	811938-62-2	811938-63-3	811938-64-4	811938-65-5
	811938-66-6	811938-67-7	811938-68-8	811938-69-9	811938-70-2
	811938-71-3	811938-72-4	811938-73-5	811938-74-6	811938-75-7
	811938-76-8	811938-77-9	811938-78-0	811938-79-1	811938-80-4
	811938-81-5	811938-82-6	811938-83-7	811938-84-8	811938-85-9
	811938-86-0	811938-87-1	811938-88-2	811938-89-3	811938-90-6
	811938-91-7	811938-92-8	811938-93-9	811938-94-0	811938-95-1
	811938-96-2	811938-97-3	811938-98-4	811938-99-5	811939-00-1
	811939-01-2	811939-02-3	811939-03-4	811939-04-5	811939-05-6
	811939-06-7	811939-07-8	811939-08-9	811939-09-0	811939-10-3
	811939-11-4	811939-12-5	811939-13-6	811939-14-7	811939-15-8
	811939-16-9	811939-17-0	811939-18-1	811939-19-2	811939-20-5
	811939-21-6	811939-22-7	811939-23-8	811939-24-9	811939-25-0
	811939-26-1	811939-27-2	811939-28-3	811939-29-4	811939-30-7
	811939-31-8	811939-32-9	811939-33-0	811939-34-1	811939-35-2
	811939-36-3	811939-37-4	811939-38-5	811939-39-6	811939-40-9
	811939-41-0	811939-42-1	811939-43-2	811939-44-3	811939-45-4
	811939-46-5	811939-47-6	811939-48-7	811939-49-8	811939-50-1
	811939-51-2	811939-52-3	811939-53-4	811939-54-5	811939-55-6
	811939-56-7	811939-57-8	811939-58-9	811939-59-0	811939-60-3
	811939-61-4	811939-62-5	811939-63-6	811939-64-7	811939-65-8
	811939-66-9	811939-67-0	811939-68-1	811939-69-2	811939-70-5
	811939-71-6	811939-72-7	811939-73-8	811939-74-9	811939-75-0
	811939-76-1	811939-77-2	811939-78-3	811939-79-4	811939-80-7
	811939-81-8	811939-82-9	811939-83-0	811939-84-1	811939-86-3
	811939-87-4	811939-88-5	811939-89-6	811939-90-9	811939-91-0
	811939-92-1	811939-93-2	811939-94-3	811939-95-4	811939-96-5
	811939-97-6	811939-98-7	811939-99-8	811940-00-8	811940-01-9
	811940-02-0	811940-03-1	811940-04-2	811940-05-3	811940-06-4
	811940-07-5	811940-08-6	811940-09-7	811940-10-0	811940-11-1
	811940-12-2	811940-13-3	811940-14-4	811940-15-5	811940-16-6
	811940-17-7	811940-18-8	811940-19-9	811940-20-2	811940-21-3
	811940-22-4	811940-23-5	811940-24-6	811940-25-7	811940-26-8
	811940-27-9	811940-28-0	811940-29-1	811940-30-4	811940-31-5
	811940-32-6	811940-33-7	811940-34-8	811940-35-9	811940-36-0
	811940-37-1	811940-38-2	811940-39-3	811940-40-6	811940-41-7

811940-42-8 811940-43-9 811940-44-0 811940-45-1 811940-46-2
 RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated
 with maize and their uses for plant improvement)

IT	811940-47-3	811940-48-4	811940-49-5	811940-50-8	811940-51-9
	811940-52-0	811940-53-1	811940-54-2	811940-55-3	811940-56-4
	811940-57-5	811940-58-6	811940-59-7	811940-60-0	811940-61-1
	811940-62-2	811940-63-3	811940-64-4	811940-65-5	811940-66-6
	811940-67-7	811940-68-8	811940-69-9	811940-70-2	811940-71-3
	811940-72-4	811940-73-5	811940-74-6	811940-75-7	811940-76-8
	811940-77-9	811940-78-0	811940-79-1	811940-80-4	811940-81-5
	811940-82-6	811940-83-7	811940-84-8	811940-85-9	811940-86-0
	811940-87-1	811940-88-2	811940-89-3	811940-90-6	811940-91-7
	811940-92-8	811940-93-9	811940-94-0	811940-95-1	811940-96-2
	811940-97-3	811940-98-4	811940-99-5	811941-00-1	811941-01-2
	811941-02-3	811941-03-4	811941-04-5	811941-05-6	811941-06-7
	811941-07-8	811941-08-9	811941-09-0	811941-10-3	811941-11-4
	811941-12-5	811941-13-6	811941-14-7	811941-15-8	811941-16-9
	811941-17-0	811941-18-1	811941-19-2	811941-20-5	811941-21-6
	811941-22-7	811941-23-8	811941-24-9	811941-25-0	811941-26-1
	811941-27-2	811941-28-3	811941-29-4	811941-30-7	811941-31-8
	811941-32-9	811941-33-0	811941-34-1	811941-35-2	811941-36-3
	811941-37-4	811941-38-5	811941-39-6	811941-40-9	811941-41-0
	811941-42-1	811941-43-2	811941-44-3	811941-45-4	811941-46-5
	811941-47-6	811941-48-7	811941-49-8	811941-50-1	811941-51-2
	811941-52-3	811941-53-4	811941-54-5	811941-55-6	811941-56-7
	811941-57-8	811941-58-9	811941-59-0	811941-60-3	811941-61-4
	811941-62-5	811941-63-6	811941-64-7	811941-65-8	811941-66-9
	811941-67-0	811941-68-1	811941-69-2	811941-70-5	811941-71-6
	811941-72-7	811941-73-8	811941-74-9	811941-75-0	811941-76-1
	811941-77-2	811941-78-3	811941-79-4	811941-80-7	811941-81-8
	811941-82-9	811941-83-0	811941-84-1	811941-85-2	811941-86-3
	811941-87-4	811941-88-5	811941-89-6	811941-90-9	811941-91-0
	811941-92-1	811941-93-2	811941-94-3	811941-95-4	811941-96-5
	811941-97-6	811941-98-7	811941-99-8	811942-00-4	811942-01-5
	811942-02-6	811942-03-7	811942-04-8	811942-05-9	811942-06-0
	811942-07-1	811942-08-2	811942-09-3	811942-10-6	811942-11-7
	811942-12-8	811942-13-9	811942-14-0	811942-15-1	811942-16-2
	811942-17-3	811942-18-4	811942-19-5	811942-20-8	811942-21-9
	811942-22-0	811942-23-1	811942-24-2	811942-25-3	811942-26-4
	811942-27-5	811942-28-6	811942-29-7	811942-30-0	811942-31-1
	811942-32-2	811942-33-3	811942-34-4	811942-35-5	811942-36-6
	811942-37-7	811942-38-8	811942-39-9	811942-40-2	811942-41-3
	811942-42-4	811942-43-5	811942-44-6	811942-45-7	811942-46-8
	811942-47-9	811942-48-0	811942-49-1	811942-50-4	811942-51-5
	811942-52-6	811942-53-7	811942-54-8	811942-55-9	811942-56-0
	811942-57-1	811942-58-2	811942-59-3	811942-60-6	811942-61-7
	811942-62-8	811942-63-9	811942-64-0	811942-65-1	811942-66-2
	811942-67-3	811942-68-4	811942-69-5	811942-70-8	811942-71-9
	811942-72-0	811942-73-1	811942-74-2	811942-75-3	811942-76-4
	811942-77-5	811942-78-6	811942-79-7	811942-80-0	811942-81-1

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated
 with maize and their uses for plant improvement)

IT	811942-82-2	811942-83-3	811942-84-4	811942-85-5	811942-86-6
	811942-87-7	811942-88-8	811942-89-9	811942-90-2	811942-91-3
	811942-92-4	811942-93-5	811942-94-6	811942-95-7	811942-96-8
	811942-97-9	811942-98-0	811942-99-1	811943-00-7	811943-01-8
	811943-02-9	811943-03-0	811943-04-1	811943-05-2	811943-06-3

811943-07-4	811943-08-5	811943-09-6	811943-10-9	811943-11-0
811943-12-1	811943-13-2	811943-14-3	811943-15-4	811943-16-5
811943-17-6	811943-18-7	811943-19-8	811943-20-1	811943-21-2
811943-22-3	811943-23-4	811943-24-5	811943-25-6	811943-26-7
811943-27-8	811943-28-9	811943-29-0	811943-30-3	811943-31-4
811943-32-5	811943-33-6	811943-34-7	811943-35-8	811943-36-9
811943-37-0	811943-38-1	811943-39-2	811943-40-5	811943-41-6
811943-42-7	811943-43-8	811943-44-9	811943-45-0	811943-46-1
811943-47-2	811943-48-3	811943-49-4	811943-50-7	811943-51-8
811943-52-9	811943-53-0	811943-54-1	811943-55-2	811943-56-3
811943-57-4	811943-58-5	811943-59-6	811943-60-9	811943-61-0
811943-62-1	811943-63-2	811943-64-3	811943-65-4	811943-66-5
811943-67-6	811943-68-7	811943-69-8	811943-70-1	811943-71-2
811943-72-3	811943-73-4	811943-74-5	811943-75-6	811943-76-7
811943-77-8	811943-78-9	811943-79-0	811943-80-3	811943-81-4
811943-82-5	811943-83-6	811943-84-7	811943-85-8	811943-86-9
811943-87-0	811943-88-1	811943-89-2	811943-90-5	811943-91-6
811943-92-7	811943-93-8	811943-94-9	811943-95-0	811943-96-1
811943-97-2	811943-98-3	811943-99-4	811944-00-0	811944-01-1
811944-02-2	811944-03-3	811944-04-4	811944-05-5	811944-06-6
811944-07-7	811944-08-8	811944-09-9	811944-10-2	811944-11-3
811944-12-4	811944-13-5	811944-14-6	811944-15-7	811944-16-8
811944-17-9	811944-18-0	811944-19-1	811944-20-4	811944-21-5
811944-22-6	811944-23-7	811944-24-8	811944-25-9	811944-26-0
811944-27-1	811944-28-2	811944-29-3	811944-30-6	811944-31-7
811944-32-8	811944-33-9	811944-34-0	811944-35-1	811944-36-2
811944-37-3	811944-38-4	811944-39-5	811944-40-8	811944-41-9
811944-42-0	811944-43-1	811944-44-2	811944-45-3	811944-46-4
811944-47-5	811944-48-6	811944-49-7	811944-50-0	811944-51-1
811944-52-2	811944-53-3	811944-54-4	811944-55-5	811944-56-6
811944-57-7	811944-58-8	811944-59-9	811944-60-2	811944-61-3
811944-62-4	811944-63-5	811944-64-6	811944-65-7	811944-66-8
811944-67-9	811944-68-0	811944-69-1	811944-70-4	811944-71-5
811944-72-6	811944-73-7	811944-74-8	811944-75-9	811944-76-0
811944-77-1	811944-78-2	811944-79-3	811944-80-6	811944-81-7
811944-82-8	811944-83-9	811944-84-0	811944-85-1	811944-86-2
811944-87-3	811944-88-4	811944-89-5	811944-90-8	811944-91-9
811944-92-0	811944-93-1	811944-94-2	811944-95-3	811944-96-4
811944-97-5	811944-98-6	811944-99-7	811945-00-3	811945-01-4
811945-02-5	811945-03-6	811945-04-7	811945-05-8	811945-06-9
811945-07-0	811945-08-1	811945-09-2	811945-10-5	811945-11-6
811945-12-7	811945-13-8	811945-14-9	811945-15-0	811945-16-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811945-17-2	811945-18-3	811945-19-4	811945-20-7	811945-21-8
	811945-22-9	811945-23-0	811945-24-1	811945-25-2	811945-26-3
	811945-27-4	811945-28-5	811945-29-6	811945-30-9	811945-31-0
	811945-32-1	811945-33-2	811945-34-3	811945-35-4	811945-36-5
	811945-37-6	811945-38-7	811945-39-8	811945-40-1	811945-41-2
	811945-42-3	811945-43-4	811945-44-5	811945-45-6	811945-46-7
	811945-47-8	811945-48-9	811945-49-0	811945-50-3	811945-51-4
	811945-52-5	811945-53-6	811945-54-7	811945-55-8	811945-56-9
	811945-57-0	811945-58-1	811945-59-2	811945-60-5	811945-61-6
	811945-62-7	811945-63-8	811945-64-9	811945-65-0	811945-66-1
	811945-67-2	811945-68-3	811945-69-4	811945-70-7	811945-71-8
	811945-72-9	811945-73-0	811945-74-1	811945-75-2	811945-76-3
	811945-77-4	811945-78-5	811945-80-9	811945-81-0	811945-82-1
	811945-83-2	811945-84-3	811945-85-4	811945-86-5	811945-87-6
	811945-88-7	811945-89-8	811945-90-1	811945-91-2	811945-92-3

811945-93-4	811945-94-5	811945-95-6	811945-96-7	811945-97-8
811945-98-9	811945-99-0	811946-00-6	811946-01-7	811946-02-8
811946-03-9	811946-04-0	811946-05-1	811946-06-2	811946-07-3
811946-08-4	811946-09-5	811946-10-8	811946-11-9	811946-12-0
811946-13-1	811946-14-2	811946-15-3	811946-16-4	811946-17-5
811946-18-6	811946-19-7	811946-20-0	811946-21-1	811946-22-2
811946-23-3	811946-24-4	811946-25-5	811946-26-6	811946-27-7
811946-28-8	811946-29-9	811946-30-2	811946-31-3	811946-32-4
811946-33-5	811946-34-6	811946-35-7	811946-36-8	811946-37-9
811946-38-0	811946-39-1	811946-40-4	811946-41-5	811946-42-6
811946-43-7	811946-44-8	811946-45-9	811946-46-0	811946-47-1
811946-48-2	811946-49-3	811946-50-6	811946-51-7	811946-52-8
811946-53-9	811946-54-0	811946-55-1	811946-56-2	811946-57-3
811946-58-4	811946-59-5	811946-60-8	811946-61-9	811946-62-0
811946-63-1	811946-64-2	811946-65-3	811946-66-4	811946-67-5
811946-68-6	811946-69-7	811946-70-0	811946-71-1	811946-72-2
811946-73-3	811946-74-4	811946-75-5	811946-76-6	811946-77-7
811946-78-8	811946-79-9	811946-80-2	811946-81-3	811946-82-4
811946-83-5	811946-84-6	811946-85-7	811946-86-8	811946-87-9
811946-88-0	811946-89-1	811946-90-4	811946-91-5	811946-92-6
811946-93-7	811946-94-8	811946-95-9	811946-96-0	811946-97-1
811946-98-2	811946-99-3	811947-00-9	811947-01-0	811947-02-1
811947-03-2	811947-04-3	811947-05-4	811947-06-5	811947-07-6
811947-08-7	811947-09-8	811947-10-1	811947-11-2	811947-12-3
811947-13-4	811947-14-5	811947-15-6	811947-16-7	811947-17-8
811947-18-9	811947-19-0	811947-20-3	811947-21-4	811947-22-5
811947-23-6	811947-24-7	811947-25-8	811947-26-9	811947-27-0
811947-28-1	811947-29-2	811947-30-5	811947-31-6	811947-32-7
811947-33-8	811947-34-9	811947-35-0	811947-36-1	811947-37-2
811947-38-3	811947-39-4	811947-40-7	811947-41-8	811947-42-9
811947-43-0	811947-44-1	811947-45-2	811947-46-3	811947-47-4
811947-48-5	811947-49-6	811947-50-9	811947-51-0	811947-52-1

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811947-53-2	811947-54-3	811947-55-4	811947-56-5	811947-57-6
	811947-58-7	811947-59-8	811947-60-1	811947-61-2	811947-62-3
	811947-63-4	811947-64-5	811947-65-6	811947-66-7	811947-67-8
	811947-68-9	811947-69-0	811947-70-3	811947-71-4	811947-72-5
	811947-73-6	811947-74-7	811947-75-8	811947-76-9	811947-77-0
	811947-78-1	811947-79-2	811947-80-5	811947-81-6	811947-82-7
	811947-83-8	811947-84-9	811947-85-0	811947-86-1	811947-87-2
	811947-88-3	811947-89-4	811947-90-7	811947-91-8	811947-92-9
	811947-93-0	811947-94-1	811947-95-2	811947-96-3	811947-97-4
	811947-98-5	811947-99-6	811948-00-2	811948-01-3	811948-02-4
	811948-03-5	811948-04-6	811948-05-7	811948-06-8	811948-07-9
	811948-08-0	811948-09-1	811948-10-4	811948-11-5	811948-12-6
	811948-13-7	811948-14-8	811948-15-9	811948-16-0	811948-17-1
	811948-18-2	811948-19-3	811948-20-6	811948-21-7	811948-22-8
	811948-23-9	811948-24-0	811948-25-1	811948-26-2	811948-27-3
	811948-28-4	811948-29-5	811948-30-8	811948-31-9	811948-32-0
	811948-33-1	811948-34-2	811948-35-3	811948-36-4	811948-37-5
	811948-38-6	811948-39-7	811948-40-0	811948-41-1	811948-42-2
	811948-43-3	811948-44-4	811948-45-5	811948-46-6	811948-47-7
	811948-48-8	811948-49-9	811948-50-2	811948-51-3	811948-52-4
	811948-53-5	811948-54-6	811948-55-7	811948-56-8	811948-57-9
	811948-58-0	811948-59-1	811948-60-4	811948-61-5	811948-62-6
	811948-63-7	811948-64-8	811948-65-9	811948-66-0	811948-67-1
	811948-68-2	811948-69-3	811948-70-6	811948-71-7	811948-72-8
	811948-73-9	811948-74-0	811948-75-1	811948-76-2	811948-77-3

811948-78-4	811948-79-5	811948-80-8	811948-81-9	811948-82-0
811948-83-1	811948-84-2	811948-85-3	811948-86-4	811948-87-5
811948-88-6	811948-89-7	811948-90-0	811948-91-1	811948-92-2
811948-93-3	811948-94-4	811948-95-5	811948-96-6	811948-97-7
811948-98-8	811948-99-9	811949-00-5	811949-01-6	811949-02-7
811949-03-8	811949-04-9	811949-05-0	811949-06-1	811949-07-2
811949-08-3	811949-09-4	811949-10-7	811949-11-8	811949-12-9
811949-13-0	811949-14-1	811949-15-2	811949-16-3	811949-17-4
811949-18-5	811949-19-6	811949-20-9	811949-21-0	811949-22-1
811949-23-2	811949-24-3	811949-25-4	811949-26-5	811949-27-6
811949-28-7	811949-29-8	811949-30-1	811949-31-2	811949-32-3
811949-33-4	811949-34-5	811949-35-6	811949-36-7	811949-37-8
811949-38-9	811949-39-0	811949-40-3	811949-41-4	811949-42-5
811949-43-6	811949-44-7	811949-45-8	811949-46-9	811949-47-0
811949-48-1	811949-49-2	811949-50-5	811949-51-6	811949-52-7
811949-53-8	811949-54-9	811949-55-0	811949-56-1	811949-57-2
811949-58-3	811949-59-4	811949-60-7	811949-61-8	811949-62-9
811949-63-0	811949-64-1	811949-65-2	811949-66-3	811949-67-4
811949-68-5	811949-69-6	811949-70-9	811949-71-0	811949-72-1
811949-73-2	811949-74-3	811949-75-4	811949-76-5	811949-77-6
811949-78-7	811949-79-8	811949-80-1	811949-81-2	811949-82-3
811949-83-4	811949-84-5	811949-85-6	811949-86-7	811949-87-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811949-88-9	811949-89-0	811949-90-3	811949-91-4	811949-92-5
	811949-93-6	811949-94-7	811949-95-8	811949-96-9	811949-97-0
	811949-98-1	811949-99-2	811950-00-2	811950-01-3	811950-02-4
	811950-03-5	811950-04-6	811950-05-7	811950-06-8	811950-07-9
	811950-08-0	811950-09-1	811950-10-4	811950-11-5	811950-12-6
	811950-13-7	811950-14-8	811950-15-9	811950-16-0	811950-17-1
	811950-18-2	811950-19-3	811950-20-6	811950-21-7	811950-22-8
	811950-23-9	811950-24-0	811950-25-1	811950-26-2	811950-27-3
	811950-28-4	811950-29-5	811950-30-8	811950-31-9	811950-32-0
	811950-33-1	811950-34-2	811950-35-3	811950-36-4	811950-37-5
	811950-38-6	811950-39-7	811950-40-0	811950-41-1	811950-42-2
	811950-43-3	811950-44-4	811950-45-5	811950-46-6	811950-47-7
	811950-48-8	811950-49-9	811950-50-2	811950-51-3	811950-52-4
	811950-53-5	811950-54-6	811950-55-7	811950-56-8	811950-57-9
	811950-58-0	811950-59-1	811950-60-4	811950-61-5	811950-62-6
	811950-63-7	811950-64-8	811950-65-9	811950-66-0	811950-67-1
	811950-68-2	811950-69-3	811950-70-6	811950-71-7	811950-72-8
	811950-73-9	811950-74-0	811950-75-1	811950-76-2	811950-77-3
	811950-78-4	811950-79-5	811950-80-8	811950-81-9	811950-82-0
	811950-83-1	811950-84-2	811950-85-3	811950-86-4	811950-87-5
	811950-88-6	811950-89-7	811950-90-0	811950-91-1	811950-92-2
	811950-93-3	811950-94-4	811950-95-5	811950-96-6	811950-97-7
	811950-98-8	811950-99-9	811951-00-5	811951-01-6	811951-02-7
	811951-03-8	811951-04-9	811951-05-0	811951-06-1	811951-07-2
	811951-08-3	811951-09-4	811951-10-7	811951-11-8	811951-12-9
	811951-13-0	811951-14-1	811951-15-2	811951-16-3	811951-17-4
	811951-18-5	811951-19-6	811951-20-9	811951-21-0	811951-22-1
	811951-23-2	811951-24-3	811951-25-4	811951-26-5	811951-27-6
	811951-28-7	811951-29-8	811951-30-1	811951-31-2	811951-32-3
	811951-33-4	811951-34-5	811951-35-6	811951-36-7	811951-37-8
	811951-38-9	811951-39-0	811951-40-3	811951-41-4	811951-42-5
	811951-43-6	811951-44-7	811951-45-8	811951-46-9	811951-47-0
	811951-48-1	811951-49-2	811951-50-5	811951-51-6	811951-52-7
	811951-53-8	811951-54-9	811951-55-0	811951-56-1	811951-57-2
	811951-58-3	811951-59-4	811951-60-7	811951-61-8	811951-62-9

811951-63-0	811951-64-1	811951-65-2	811951-66-3	811951-67-4
811951-68-5	811951-69-6	811951-70-9	811951-71-0	811951-72-1
811951-73-2	811951-74-3	811951-75-4	811951-76-5	811951-77-6
811951-78-7	811951-79-8	811951-80-1	811951-81-2	811951-82-3
811951-83-4	811951-84-5	811951-85-6	811951-86-7	811951-87-8
811951-88-9	811951-89-0	811951-90-3	811951-91-4	811951-92-5
811951-93-6	811951-94-7	811951-95-8	811951-96-9	811951-97-0
811951-98-1	811951-99-2	811952-00-8	811952-01-9	811952-02-0
811952-03-1	811952-04-2	811952-05-3	811952-06-4	811952-07-5
811952-08-6	811952-09-7	811952-10-0	811952-11-1	811952-12-2
811952-13-3	811952-14-4	811952-15-5	811952-16-6	811952-17-7
811952-18-8	811952-19-9	811952-20-2	811952-21-3	811952-22-4

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811952-23-5	811952-24-6	811952-25-7	811952-26-8	811952-27-9
	811952-28-0	811952-29-1	811952-30-4	811952-31-5	811952-32-6
	811952-33-7	811952-34-8	811952-35-9	811952-36-0	811952-37-1
	811952-38-2	811952-39-3	811952-40-6	811952-41-7	811952-42-8
	811952-43-9	811952-44-0	811952-45-1	811952-46-2	811952-47-3
	811952-48-4	811952-49-5	811952-50-8	811952-51-9	811952-52-0
	811952-53-1	811952-54-2	811952-55-3	811952-56-4	811952-57-5
	811952-58-6	811952-59-7	811952-60-0	811952-61-1	811952-62-2
	811952-63-3	811952-64-4	811952-65-5	811952-66-6	811952-67-7
	811952-68-8	811952-69-9	811952-70-2	811952-71-3	811952-72-4
	811952-73-5	811952-74-6	811952-75-7	811952-76-8	811952-77-9
	811952-78-0	811952-79-1	811952-80-4	811952-81-5	811952-82-6
	811952-83-7	811952-84-8	811952-85-9	811952-86-0	811952-87-1
	811952-88-2	811952-89-3	811952-90-6	811952-91-7	811952-92-8
	811952-93-9	811952-94-0	811952-95-1	811952-96-2	811952-97-3
	811952-98-4	811952-99-5	811953-00-1	811953-01-2	811953-02-3
	811953-03-4	811953-04-5	811953-05-6	811953-06-7	811953-07-8
	811953-08-9	811953-09-0	811953-10-3	811953-11-4	811953-12-5
	811953-13-6	811953-14-7	811953-15-8	811953-16-9	811953-17-0
	811953-18-1	811953-19-2	811953-20-5	811953-21-6	811953-22-7
	811953-23-8	811953-24-9	811953-25-0	811953-26-1	811953-27-2
	811953-28-3	811953-29-4	811953-30-7	811953-31-8	811953-32-9
	811953-33-0	811953-34-1	811953-35-2	811953-36-3	811953-37-4
	811953-38-5	811953-39-6	811953-40-9	811953-41-0	811953-42-1
	811953-43-2	811953-44-3	811953-45-4	811953-46-5	811953-47-6
	811953-48-7	811953-49-8	811953-50-1	811953-51-2	811953-52-3
	811953-53-4	811953-54-5	811953-55-6	811953-56-7	811953-57-8
	811953-58-9	811953-59-0	811953-60-3	811953-61-4	811953-62-5
	811953-63-6	811953-64-7	811953-65-8	811953-66-9	811953-67-0
	811953-68-1	811953-69-2	811953-70-5	811953-71-6	811953-72-7
	811953-73-8	811953-74-9	811953-75-0	811953-76-1	811953-77-2
	811953-78-3	811953-79-4	811953-80-7	811953-81-8	811953-82-9
	811953-83-0	811953-84-1	811953-85-2	811953-86-3	811953-87-4
	811953-88-5	811953-89-6	811953-90-9	811953-91-0	811953-92-1
	811953-93-2	811953-94-3	811953-95-4	811953-96-5	811953-97-6
	811953-98-7	811953-99-8	811954-00-4	811954-01-5	811954-02-6
	811954-03-7	811954-04-8	811954-05-9	811954-06-0	811954-07-1
	811954-08-2	811954-09-3	811954-10-6	811954-11-7	811954-12-8
	811954-13-9	811954-14-0	811954-15-1	811954-16-2	811954-17-3
	811954-18-4	811954-19-5	811954-20-8	811954-21-9	811954-22-0
	811954-23-1	811954-24-2	811954-25-3	811954-26-4	811954-27-5
	811954-28-6	811954-29-7	811954-30-0	811954-31-1	811954-32-2
	811954-33-3	811954-34-4	811954-35-5	811954-36-6	811954-37-7
	811954-38-8	811954-39-9	811954-40-2	811954-41-3	811954-42-4
	811954-43-5	811954-44-6	811954-45-7	811954-46-8	811954-47-9

811954-48-0 811954-49-1 811954-50-4 811954-51-5 811954-52-6
 811954-53-7 811954-54-8 811954-55-9 811954-56-0 811954-57-1
 RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated
 with maize and their uses for plant improvement)

IT	811954-58-2	811954-59-3	811954-60-6	811954-61-7	811954-62-8
	811954-63-9	811954-64-0	811954-65-1	811954-66-2	811954-67-3
	811954-68-4	811954-69-5	811954-70-8	811954-71-9	811954-72-0
	811954-73-1	811954-74-2	811954-75-3	811954-76-4	811954-77-5
	811954-78-6	811954-79-7	811954-80-0	811954-81-1	811954-82-2
	811954-83-3	811954-84-4	811954-85-5	811954-86-6	811954-87-7
	811954-88-8	811954-89-9	811954-90-2	811954-91-3	811954-92-4
	811954-93-5	811954-94-6	811954-95-7	811954-96-8	811954-97-9
	811954-98-0	811954-99-1	811955-00-7	811955-01-8	811955-02-9
	811955-03-0	811955-04-1	811955-05-2	811955-06-3	811955-07-4
	811955-08-5	811955-09-6	811955-10-9	811955-11-0	811955-12-1
	811955-13-2	811955-14-3	811955-15-4	811955-16-5	811955-17-6
	811955-18-7	811955-19-8	811955-20-1	811955-21-2	811955-22-3
	811955-23-4	811955-24-5	811955-25-6	811955-26-7	811955-27-8
	811955-28-9	811955-29-0	811955-30-3	811955-31-4	811955-32-5
	811955-33-6	811955-34-7	811955-35-8	811955-36-9	811955-37-0
	811955-38-1	811955-39-2	811955-40-5	811955-41-6	811955-42-7
	811955-43-8	811955-44-9	811955-45-0	811955-46-1	811955-47-2
	811955-48-3	811955-49-4	811955-50-7	811955-51-8	811955-52-9
	811955-53-0	811955-54-1	811955-55-2	811955-56-3	811955-57-4
	811955-58-5	811955-59-6	811955-60-9	811955-61-0	811955-62-1
	811955-63-2	811955-64-3	811955-65-4	811955-66-5	811955-67-6
	811955-68-7	811955-69-8	811955-70-1	811955-71-2	811955-72-3
	811955-73-4	811955-74-5	811955-75-6	811955-76-7	811955-77-8
	811955-78-9	811955-79-0	811955-80-3	811955-81-4	811955-82-5
	811955-83-6	811955-84-7	811955-85-8	811955-86-9	811955-87-0
	811955-88-1	811955-89-2	811955-90-5	811955-91-6	811955-92-7
	811955-93-8	811955-94-9	811955-95-0	811955-96-1	811955-97-2
	811955-98-3	811955-99-4	811956-00-0	811956-01-1	811956-02-2
	811956-03-3	811956-04-4	811956-05-5	811956-06-6	811956-07-7
	811956-08-8	811956-09-9	811956-10-2	811956-11-3	811956-12-4
	811956-13-5	811956-14-6	811956-15-7	811956-16-8	811956-17-9
	811956-18-0	811956-19-1	811956-20-4	811956-21-5	811956-22-6
	811956-23-7	811956-24-8	811956-25-9	811956-26-0	811956-27-1
	811956-28-2	811956-29-3	811956-30-6	811956-31-7	811956-32-8
	811956-33-9	811956-34-0	811956-35-1	811956-36-2	811956-37-3
	811956-38-4	811956-39-5	811956-40-8	811956-41-9	811956-42-0
	811956-43-1	811956-44-2	811956-45-3	811956-46-4	811956-47-5
	811956-48-6	811956-49-7	811956-50-0	811956-51-1	811956-52-2
	811956-53-3	811956-54-4	811956-55-5	811956-56-6	811956-57-7
	811956-58-8	811956-59-9	811956-60-2	811956-61-3	811956-62-4
	811956-63-5	811956-64-6	811956-65-7	811956-66-8	811956-67-9
	811956-68-0	811956-69-1	811956-70-4	811956-71-5	811956-72-6
	811956-73-7	811956-74-8	811956-75-9	811956-76-0	811956-77-1
	811956-78-2	811956-79-3	811956-80-6	811956-81-7	811956-82-8
	811956-83-9	811956-84-0	811956-85-1	811956-86-2	811956-87-3
	811956-88-4	811956-89-5	811956-90-8	811956-91-9	811956-92-0

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated
 with maize and their uses for plant improvement)

IT	811956-93-1	811956-94-2	811956-95-3	811956-96-4	811956-97-5
	811956-98-6	811956-99-7	811957-00-3	811957-01-4	811957-02-5
	811957-03-6	811957-04-7	811957-05-8	811957-06-9	811957-07-0
	811957-08-1	811957-09-2	811957-10-5	811957-11-6	811957-12-7

811957-13-8	811957-14-9	811957-15-0	811957-16-1	811957-17-2
811957-18-3	811957-19-4	811957-20-7	811957-21-8	811957-22-9
811957-23-0	811957-24-1	811957-25-2	811957-26-3	811957-27-4
811957-28-5	811957-29-6	811957-30-9	811957-31-0	811957-32-1
811957-33-2	811957-34-3	811957-35-4	811957-36-5	811957-37-6
811957-38-7	811957-39-8	811957-40-1	811957-41-2	811957-42-3
811957-43-4	811957-44-5	811957-45-6	811957-46-7	811957-47-8
811957-48-9	811957-49-0	811957-50-3	811957-51-4	811957-52-5
811957-53-6	811957-54-7	811957-55-8	811957-56-9	811957-57-0
811957-58-1	811957-59-2	811957-60-5	811957-61-6	811957-62-7
811957-63-8	811957-64-9	811957-65-0	811957-66-1	811957-67-2
811957-68-3	811957-69-4	811957-70-7	811957-71-8	811957-72-9
811957-73-0	811957-74-1	811957-75-2	811957-76-3	811957-77-4
811957-78-5	811957-79-6	811957-80-9	811957-81-0	811957-82-1
811957-83-2	811957-84-3	811957-85-4	811957-86-5	811957-87-6
811957-88-7	811957-89-8	811957-90-1	811957-91-2	811957-92-3
811957-93-4	811957-94-5	811957-95-6	811957-96-7	811957-97-8
811957-98-9	811957-99-0	811958-00-6	811958-01-7	811958-02-8
811958-03-9	811958-04-0	811958-05-1	811958-06-2	811958-07-3
811958-08-4	811958-09-5	811958-10-8	811958-11-9	811958-12-0
811958-13-1	811958-14-2	811958-15-3	811958-16-4	811958-17-5
811958-18-6	811958-19-7	811958-20-0	811958-21-1	811958-22-2
811958-23-3	811958-24-4	811958-25-5	811958-26-6	811958-27-7
811958-28-8	811958-29-9	811958-30-2	811958-31-3	811958-32-4
811958-33-5	811958-34-6	811958-35-7	811958-36-8	811958-37-9
811958-38-0	811958-39-1	811958-40-4	811958-41-5	811958-42-6
811958-43-7	811958-44-8	811958-45-9	811958-46-0	811958-47-1
811958-48-2	811958-49-3	811958-50-6	811958-51-7	811958-52-8
811958-53-9	811958-54-0	811958-55-1	811958-56-2	811958-57-3
811958-58-4	811958-59-5	811958-60-8	811958-61-9	811958-62-0
811958-63-1	811958-64-2	811958-65-3	811958-66-4	811958-67-5
811958-68-6	811958-69-7	811958-70-0	811958-71-1	811958-72-2
811958-73-3	811958-74-4	811958-75-5	811958-76-6	811958-77-7
811958-78-8	811958-79-9	811958-80-2	811958-81-3	811958-82-4
811958-83-5	811958-84-6	811958-85-7	811958-86-8	811958-87-9
811958-88-0	811958-89-1	811958-90-4	811958-91-5	811958-92-6
811958-93-7	811958-94-8	811958-95-9	811958-96-0	811958-97-1
811958-98-2	811958-99-3	811959-00-9	811959-01-0	811959-02-1
811959-03-2	811959-04-3	811959-05-4	811959-06-5	811959-07-6
811959-08-7	811959-09-8	811959-10-1	811959-11-2	811959-12-3
811959-13-4	811959-14-5	811959-15-6	811959-16-7	811959-17-8
811959-18-9	811959-19-0	811959-20-3	811959-21-4	811959-22-5
811959-23-6	811959-24-7	811959-25-8	811959-26-9	811959-27-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811959-28-1	811959-29-2	811959-30-5	811959-31-6	811959-32-7
	811959-33-8	811959-34-9	811959-35-0	811959-36-1	811959-37-2
	811959-38-3	811959-39-4	811959-40-7	811959-41-8	811959-42-9
	811959-43-0	811959-44-1	811959-45-2	811959-46-3	811959-47-4
	811959-48-5	811959-49-6	811959-50-9	811959-51-0	811959-52-1
	811959-53-2	811959-54-3	811959-55-4	811959-56-5	811959-57-6
	811959-58-7	811959-59-8	811959-60-1	811959-61-2	811959-62-3
	811959-63-4	811959-64-5	811959-65-6	811959-66-7	811959-67-8
	811959-68-9	811959-69-0	811959-70-3	811959-71-4	811959-72-5
	811959-73-6	811959-74-7	811959-75-8	811959-76-9	811959-77-0
	811959-78-1	811959-79-2	811959-80-5	811959-81-6	811959-82-7
	811959-83-8	811959-84-9	811959-85-0	811959-86-1	811959-87-2
	811959-88-3	811959-89-4	811959-90-7	811959-91-8	811959-92-9
	811959-93-0	811959-94-1	811959-95-2	811959-96-3	811959-97-4

811959-98-5	811959-99-6	811960-00-6	811960-01-7	811960-02-8
811960-03-9	811960-04-0	811960-05-1	811960-06-2	811960-07-3
811960-08-4	811960-09-5	811960-10-8	811960-11-9	811960-12-0
811960-13-1	811960-14-2	811960-15-3	811960-16-4	811960-17-5
811960-18-6	811960-19-7	811960-20-0	811960-21-1	811960-22-2
811960-23-3	811960-24-4	811960-25-5	811960-26-6	811960-27-7
811960-28-8	811960-29-9	811960-30-2	811960-31-3	811960-32-4
811960-33-5	811960-34-6	811960-35-7	811960-36-8	811960-37-9
811960-38-0	811960-39-1	811960-40-4	811960-41-5	811960-42-6
811960-43-7	811960-44-8	811960-45-9	811960-46-0	811960-47-1
811960-48-2	811960-49-3	811960-50-6	811960-51-7	811960-52-8
811960-53-9	811960-54-0	811960-55-1	811960-56-2	811960-57-3
811960-58-4	811960-59-5	811960-60-8	811960-61-9	811960-62-0
811960-63-1	811960-64-2	811960-65-3	811960-66-4	811960-67-5
811960-68-6	811960-69-7	811960-70-0	811960-71-1	811960-72-2
811960-73-3	811960-74-4	811960-75-5	811960-76-6	811960-77-7
811960-78-8	811960-79-9	811960-80-2	811960-81-3	811960-82-4
811960-83-5	811960-84-6	811960-85-7	811960-86-8	811960-87-9
811960-88-0	811960-89-1	811960-90-4	811960-91-5	811960-92-6
811960-93-7	811960-94-8	811960-95-9	811960-96-0	811960-97-1
811960-98-2	811960-99-3	811961-00-9	811961-01-0	811961-02-1
811961-03-2	811961-04-3	811961-05-4	811961-06-5	811961-07-6
811961-08-7	811961-09-8	811961-10-1	811961-11-2	811961-12-3
811961-13-4	811961-14-5	811961-15-6	811961-16-7	811961-17-8
811961-18-9	811961-19-0	811961-20-3	811961-21-4	811961-22-5
811961-23-6	811961-24-7	811961-25-8	811961-26-9	811961-27-0
811961-28-1	811961-29-2	811961-30-5	811961-31-6	811961-32-7
811961-33-8	811961-34-9	811961-35-0	811961-36-1	811961-37-2
811961-38-3	811961-39-4	811961-40-7	811961-41-8	811961-42-9
811961-43-0	811961-44-1	811961-45-2	811961-46-3	811961-47-4
811961-48-5	811961-49-6	811961-50-9	811961-51-0	811961-52-1
811961-53-2	811961-54-3	811961-55-4	811961-56-5	811961-57-6
811961-58-7	811961-59-8	811961-60-1	811961-61-2	811961-62-3

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811961-63-4	811961-64-5	811961-65-6	811961-66-7	811961-67-8
	811961-68-9	811961-69-0	811961-70-3	811961-71-4	811961-72-5
	811961-73-6	811961-74-7	811961-75-8	811961-76-9	811961-77-0
	811961-78-1	811961-79-2	811961-80-5	811961-81-6	811961-82-7
	811961-83-8	811961-84-9	811961-85-0	811961-86-1	811961-87-2
	811961-88-3	811961-89-4	811961-90-7	811961-91-8	811961-92-9
	811961-93-0	811961-94-1	811961-95-2	811961-96-3	811961-97-4
	811961-98-5	811961-99-6	811962-00-2	811962-01-3	811962-02-4
	811962-03-5	811962-04-6	811962-05-7	811962-06-8	811962-07-9
	811962-08-0	811962-09-1	811962-10-4	811962-11-5	811962-12-6
	811962-13-7	811962-14-8	811962-15-9	811962-16-0	811962-17-1
	811962-18-2	811962-19-3	811962-20-6	811962-21-7	811962-22-8
	811962-23-9	811962-24-0	811962-25-1	811962-26-2	811962-27-3
	811962-28-4	811962-29-5	811962-30-8	811962-31-9	811962-32-0
	811962-33-1	811962-34-2	811962-35-3	811962-36-4	811962-37-5
	811962-38-6	811962-39-7	811962-40-0	811962-41-1	811962-42-2
	811962-43-3	811962-44-4	811962-45-5	811962-46-6	811962-47-7
	811962-48-8	811962-49-9	811962-50-2	811962-51-3	811962-52-4
	811962-53-5	811962-54-6	811962-55-7	811962-56-8	811962-57-9
	811962-58-0	811962-59-1	811962-60-4	811962-61-5	811962-62-6
	811962-63-7	811962-64-8	811962-65-9	811962-66-0	811962-67-1
	811962-68-2	811962-69-3	811962-70-6	811962-71-7	811962-72-8
	811962-73-9	811962-74-0	811962-75-1	811962-76-2	811962-77-3
	811962-78-4	811962-79-5	811962-80-8	811962-81-9	811962-82-0

811962-83-1	811962-84-2	811962-85-3	811962-86-4	811962-87-5
811962-88-6	811962-89-7	811962-90-0	811962-91-1	811962-92-2
811962-93-3	811962-94-4	811962-95-5	811962-96-6	811962-97-7
811962-98-8	811962-99-9	811963-00-5	811963-01-6	811963-02-7
811963-03-8	811963-04-9	811963-05-0	811963-06-1	811963-07-2
811963-08-3	811963-09-4	811963-10-7	811963-11-8	811963-12-9
811963-13-0	811963-14-1	811963-15-2	811963-16-3	811963-17-4
811963-18-5	811963-19-6	811963-20-9	811963-21-0	811963-22-1
811963-23-2	811963-24-3	811963-25-4	811963-26-5	811963-27-6
811963-28-7	811963-29-8	811963-30-1	811963-31-2	811963-32-3
811963-33-4	811963-34-5	811963-35-6	811963-36-7	811963-37-8
811963-38-9	811963-39-0	811963-40-3	811963-41-4	811963-42-5
811963-43-6	811963-44-7	811963-45-8	811963-46-9	811963-47-0
811963-48-1	811963-49-2	811963-50-5	811963-51-6	811963-52-7
811963-53-8	811963-54-9	811963-55-0	811963-56-1	811963-57-2
811963-58-3	811963-59-4	811963-60-7	811963-61-8	811963-62-9
811963-63-0	811963-64-1	811963-65-2	811963-66-3	811963-67-4
811963-68-5	811963-69-6	811963-70-9	811963-71-0	811963-72-1
811963-73-2	811963-74-3	811963-75-4	811963-76-5	811963-77-6
811963-78-7	811963-79-8	811963-80-1	811963-81-2	811963-82-3
811963-83-4	811963-84-5	811963-85-6	811963-86-7	811963-87-8
811963-88-9	811963-89-0	811963-90-3	811963-91-4	811963-92-5
811963-93-6	811963-94-7	811963-95-8	811963-96-9	811963-97-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811963-98-1	811963-99-2	811964-00-8	811964-01-9	811964-02-0
	811964-03-1	811964-04-2	811964-05-3	811964-06-4	811964-07-5
	811964-08-6	811964-09-7	811964-10-0	811964-11-1	811964-12-2
	811964-13-3	811964-14-4	811964-15-5	811964-16-6	811964-17-7
	811964-18-8	811964-19-9	811964-20-2	811964-21-3	811964-22-4
	811964-23-5	811964-24-6	811964-25-7	811964-26-8	811964-27-9
	811964-28-0	811964-29-1	811964-30-4	811964-31-5	811964-32-6
	811964-33-7	811964-34-8	811964-35-9	811964-36-0	811964-37-1
	811964-38-2	811964-39-3	811964-40-6	811964-41-7	811964-42-8
	811964-43-9	811964-44-0	811964-45-1	811964-46-2	811964-47-3
	811964-48-4	811964-49-5	811964-50-8	811964-51-9	811964-52-0
	811964-53-1	811964-54-2	811964-55-3	811964-56-4	811964-57-5
	811964-58-6	811964-59-7	811964-60-0	811964-61-1	811964-62-2
	811964-63-3	811964-64-4	811964-65-5	811964-66-6	811964-67-7
	811964-68-8	811964-69-9	811964-70-2	811964-71-3	811964-72-4
	811964-73-5	811964-74-6	811964-75-7	811964-76-8	811964-77-9
	811964-78-0	811964-79-1	811964-80-4	811964-81-5	811964-82-6
	811964-83-7	811964-84-8	811964-85-9	811964-86-0	811964-87-1
	811964-88-2	811964-89-3	811964-90-6	811964-91-7	811964-92-8
	811964-93-9	811964-94-0	811964-95-1	811964-96-2	811964-97-3
	811964-98-4	811964-99-5	811965-00-1	811965-01-2	811965-02-3
	811965-03-4	811965-04-5	811965-05-6	811965-06-7	811965-07-8
	811965-08-9	811965-09-0	811965-10-3	811965-11-4	811965-12-5
	811965-13-6	811965-14-7	811965-15-8	811965-16-9	811965-17-0
	811965-18-1	811965-19-2	811965-20-5	811965-21-6	811965-22-7
	811965-23-8	811965-24-9	811965-25-0	811965-26-1	811965-27-2
	811965-28-3	811965-29-4	811965-30-7	811965-31-8	811965-32-9
	811965-33-0	811965-34-1	811965-35-2	811965-36-3	811965-37-4
	811965-38-5	811965-39-6	811965-40-9	811965-41-0	811965-42-1
	811965-43-2	811965-44-3	811965-45-4	811965-46-5	811965-47-6
	811965-48-7	811965-49-8	811965-50-1	811965-51-2	811965-52-3
	811965-53-4	811965-54-5	811965-55-6	811965-56-7	811965-57-8
	811965-58-9	811965-59-0	811965-60-3	811965-61-4	811965-62-5
	811965-63-6	811965-64-7	811965-65-8	811965-66-9	811965-67-0

811965-68-1	811965-69-2	811965-70-5	811965-71-6	811965-72-7
811965-73-8	811965-74-9	811965-75-0	811965-76-1	811965-77-2
811965-78-3	811965-79-4	811965-80-7	811965-81-8	811965-82-9
811965-83-0	811965-84-1	811965-85-2	811965-86-3	811965-87-4
811965-88-5	811965-89-6	811965-90-9	811965-91-0	811965-92-1
811965-93-2	811965-94-3	811965-95-4	811965-96-5	811965-97-6
811965-98-7	811965-99-8	811966-00-4	811966-01-5	811966-02-6
811966-03-7	811966-04-8	811966-05-9	811966-06-0	811966-07-1
811966-08-2	811966-09-3	811966-10-6	811966-11-7	811966-12-8
811966-13-9	811966-14-0	811966-15-1	811966-16-2	811966-17-3
811966-18-4	811966-19-5	811966-20-8	811966-21-9	811966-22-0
811966-23-1	811966-24-2	811966-25-3	811966-26-4	811966-27-5
811966-28-6	811966-29-7	811966-30-0	811966-31-1	811966-32-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	811966-33-3	811966-34-4	811966-35-5	811966-36-6	811966-37-7
	811966-38-8	811966-39-9	811966-40-2	811966-41-3	811966-42-4
	811966-43-5	811966-44-6	811966-45-7	811966-46-8	811966-47-9
	811966-48-0	811966-49-1	811966-50-4	811966-51-5	811966-52-6
	811966-53-7	811966-54-8	811966-55-9	811966-56-0	811966-57-1
	811966-58-2	811966-59-3	811966-60-6	811966-61-7	811966-62-8
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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 9005-53-2P, Lignin, preparation 11078-30-1P, Galactomannan
 RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 7723-14-0, Phosphorus, biological studies 7727-37-9, Nitrogen, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (improved use and/or uptake of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

L34 ANSWER 10 OF 169 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:5197 HCAPLUS

DN 142:50312

ED Entered STN: 05 Jan 2005

TI Nucleic acid molecules and encoded proteins associated with maize and their uses for plant improvement

IN La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David; Cao, Yongwei

PA USA

SO U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DT Patent

LA English

IC C07H021-04; A01H001-00; C12N015-82; C12N005-04

NCL 435069100; 435419000; 435468000; 530370000; 536023600; 800278000

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 11

FAN.CNT 76

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004214272	A1	20041028	US 2003-425115	20030428 <--
	US 2004214272	A1	20041028	US 2003-425115	20030428 <--
PRAI	US 2003-425115	A	20030428	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004214272	IC	C07H021-04IC A01H001-00IC C12N015-82IC C12N005-04
	NCL	435069100; 435419000; 435468000; 530370000; 536023600; 800278000

AB Recombinant polynucleotides useful for improvement of plants are provided.
 In particular, a total of 184,663 cDNA sequences are provided from cDNA

libraries generated from *Zea mays* (corn). The polypeptides encoded by these polynucleotide sequences are also provided. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol. based methods. Functions of polypeptides are determined using a hierarchical classification tool (FunCAT) and five public classification schemes (GO_BP, GO_CC, GO_MF, KEGG, and EC) and one internal Monsanto classification scheme (POI). The disclosed recombinant polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of 74 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

- ST plant protein cDNA sequence transformation; corn cDNA sequence plant transformation
- IT Stress, plant
 - (cold, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Stress, plant
 - (heat, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Recombination, genetic
 - (homologous, improved rate of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Cell cycle
 - (improved growth rate by manipulation of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Proteins
 - RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 - (improved production of seed; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Growth regulators, plant
 - RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 - (improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Fats and Glyceridic oils, biological studies
 - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 - (improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Pathogen
 - (improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Carbohydrates, biological studies
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (improved use and/or uptake of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Disease resistance, plant
 - Growth and development, plant
 - Herbicide resistance
 - Photosynthesis, biological
 - (improvement of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)
- IT Embryophyta
 - Protein sequences
 - Transformation, genetic
 - Zea mays*
 - cDNA sequences
 - (nucleic acid mols. and encoded proteins associated with maize and their

uses for plant improvement)

IT Proteins
cDNA
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Transcription factors
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Stress, plant
(osmotic, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT Stress, plant
(water deficiency, improved tolerance to; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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809777-34-2	809777-35-3	809777-36-4	809777-38-6	809777-39-7
809777-40-0	809777-41-1	809777-42-2	809777-44-4	809777-45-5
809777-46-6	809777-47-7	809777-48-8	809777-50-2	809777-51-3
809777-52-4	809777-53-5	809777-54-6	809777-56-8	809777-57-9
809777-58-0	809777-59-1	809777-60-4	809777-62-6	809777-63-7
809777-64-8	809777-65-9	809777-66-0	809777-67-1	809777-68-2
809777-69-3	809777-70-6	809777-71-7	809777-72-8	809777-73-9
809777-75-1	809777-76-2	809777-77-3	809777-78-4	809777-79-5
809777-80-8	809777-82-0	809777-83-1	809777-84-2	809777-85-3
809777-86-4	809777-88-6	809777-89-7	809777-90-0	809777-91-1
809777-92-2	809777-94-4	809777-95-5	809777-96-6	809777-97-7
809777-98-8	809778-00-5	809778-01-6	809778-02-7	809778-03-8
809778-04-9	809778-06-1	809778-07-2	809778-08-3	809778-09-4
809778-10-7	809778-12-9	809778-13-0	809778-14-1	809778-15-2
809778-16-3	809778-18-5	809778-19-6	809778-20-9	809778-21-0
809778-22-1	809778-23-2	809778-25-4	809778-26-5	809778-27-6
809778-28-7	809778-29-8	809778-31-2	809778-32-3	809778-33-4
809778-34-5	809778-35-6	809778-37-8	809778-38-9	809778-39-0
809778-40-3	809778-41-4	809778-43-6	809778-44-7	809778-45-8
809778-46-9	809778-47-0	809778-49-2	809778-50-5	809778-51-6

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809778-52-7	809778-53-8	809778-55-0	809778-56-1	809778-57-2
	809778-58-3	809778-59-4	809778-61-8	809778-62-9	809778-63-0
	809778-64-1	809778-66-3	809778-67-4	809778-68-5	809778-69-6
	809778-70-9	809778-72-1	809778-73-2	809778-74-3	809778-75-4
	809778-76-5	809778-78-7	809778-79-8	809778-80-1	809778-81-2
	809778-82-3	809778-84-5	809778-85-6	809778-86-7	809778-87-8
	809778-88-9	809778-90-3	809778-91-4	809778-92-5	809778-93-6
	809778-94-7	809778-96-9	809778-97-0	809778-98-1	809778-99-2
	809779-00-8	809779-02-0	809779-03-1	809779-04-2	809779-05-3
	809779-06-4	809779-08-6	809779-09-7	809779-10-0	809779-11-1
	809779-12-2	809779-14-4	809779-15-5	809779-16-6	809779-17-7

809779-18-8	809779-20-2	809779-21-3	809779-22-4	809779-23-5
809779-24-6	809779-25-7	809779-27-9	809779-28-0	809779-29-1
809779-30-4	809779-31-5	809779-33-7	809779-34-8	809779-35-9
809779-36-0	809779-37-1	809779-39-3	809779-40-6	809779-41-7
809779-42-8	809779-44-0	809779-45-1	809779-46-2	809779-47-3
809779-48-4	809779-50-8	809779-51-9	809779-52-0	809779-53-1
809779-54-2	809779-56-4	809779-57-5	809779-58-6	809779-59-7
809779-60-0	809779-62-2	809779-63-3	809779-64-4	809779-65-5
809779-66-6	809779-68-8	809779-69-9	809779-70-2	809779-71-3
809779-73-5	809779-74-6	809779-75-7	809779-76-8	809779-78-0
809779-79-1	809779-80-4	809779-81-5	809779-82-6	809779-84-8
809779-85-9	809779-86-0	809779-87-1	809779-88-2	809779-90-6
809779-91-7	809779-92-8	809779-93-9	809779-94-0	809779-96-2
809779-97-3	809779-98-4	809779-99-5	809780-01-6	809780-02-7
809780-03-8	809780-04-9	809780-05-0	809780-07-2	809780-08-3
809780-09-4	809780-10-7	809780-12-9	809780-13-0	809780-14-1
809780-15-2	809780-16-3	809780-18-5	809780-19-6	809780-20-9
809780-21-0	809780-23-2	809780-24-3	809780-25-4	809780-26-5
809780-27-6	809780-29-8	809780-30-1	809780-31-2	809780-32-3
809780-33-4	809780-35-6	809780-36-7	809780-37-8	809780-38-9
809780-40-3	809780-41-4	809780-42-5	809780-43-6	809780-44-7
809780-46-9	809780-47-0	809780-48-1	809780-49-2	809780-50-5
809780-52-7	809780-53-8	809780-54-9	809780-55-0	809780-57-2
809780-58-3	809780-59-4	809780-60-7	809780-61-8	809780-63-0
809780-64-1	809780-65-2	809780-66-3	809780-67-4	809780-68-5
809780-69-6	809780-70-9	809780-71-0	809780-72-1	809780-73-2
809780-75-4	809780-76-5	809780-77-6	809780-78-7	809780-80-1
809780-81-2	809780-82-3	809780-83-4	809780-84-5	809780-86-7
809780-87-8	809780-88-9	809780-89-0	809780-91-4	809780-92-5
809780-93-6	809780-94-7	809780-95-8	809780-97-0	809780-98-1
809780-99-2	809781-00-8	809781-02-0	809781-03-1	809781-04-2
809781-05-3	809781-06-4	809781-08-6	809781-09-7	809781-10-0
809781-11-1	809781-13-3	809781-14-4	809781-15-5	809781-16-6
809781-17-7	809781-19-9	809781-20-2	809781-21-3	809781-22-4
809781-23-5	809781-25-7	809781-26-8	809781-27-9	809781-28-0
809781-30-4	809781-31-5	809781-32-6	809781-33-7	809781-35-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809781-36-0	809781-37-1	809781-38-2	809781-39-3	809781-41-7
	809781-42-8	809781-43-9	809781-44-0	809781-46-2	809781-47-3
	809781-48-4	809781-49-5	809781-51-9	809781-52-0	809781-53-1
	809781-54-2	809781-55-3	809781-57-5	809781-58-6	809781-59-7
	809781-60-0	809781-62-2	809781-63-3	809781-64-4	809781-65-5
	809781-67-7	809781-68-8	809781-69-9	809781-70-2	809781-71-3
	809781-73-5	809781-74-6	809781-75-7	809781-76-8	809781-77-9
	809781-79-1	809781-80-4	809781-81-5	809781-82-6	809781-84-8
	809781-85-9	809781-86-0	809781-87-1	809781-88-2	809781-90-6
	809781-91-7	809781-92-8	809781-93-9	809781-95-1	809781-96-2
	809781-97-3	809781-98-4	809781-99-5	809782-01-2	809782-02-3
	809782-03-4	809782-04-5	809782-05-6	809782-07-8	809782-08-9
	809782-09-0	809782-10-3	809782-12-5	809782-13-6	809782-14-7
	809782-15-8	809782-16-9	809782-18-1	809782-19-2	809782-20-5
	809782-21-6	809782-23-8	809782-24-9	809782-25-0	809782-26-1
	809782-27-2	809782-29-4	809782-30-7	809782-31-8	809782-32-9
	809782-33-0	809782-35-2	809782-36-3	809782-37-4	809782-38-5
	809782-39-6	809782-41-0	809782-42-1	809782-43-2	809782-44-3
	809782-46-5	809782-47-6	809782-48-7	809782-49-8	809782-51-2
	809782-52-3	809782-53-4	809782-54-5	809782-55-6	809782-57-8
	809782-58-9	809782-59-0	809782-60-3	809782-62-5	809782-63-6

809782-64-7	809782-65-8	809782-66-9	809782-68-1	809782-69-2
809782-70-5	809782-71-6	809782-73-8	809782-74-9	809782-75-0
809782-76-1	809782-78-3	809782-79-4	809782-80-7	809782-82-9
809782-83-0	809782-84-1	809782-85-2	809782-87-4	809782-88-5
809782-89-6	809782-90-9	809782-91-0	809782-92-1	809782-93-2
809782-94-3	809782-95-4	809782-97-6	809782-98-7	809782-99-8
809783-00-4	809783-02-6	809783-03-7	809783-04-8	809783-05-9
809783-07-1	809783-08-2	809783-09-3	809783-10-6	809783-11-7
809783-13-9	809783-14-0	809783-15-1	809783-16-2	809783-18-4
809783-19-5	809783-20-8	809783-21-9	809783-23-1	809783-24-2
809783-25-3	809783-26-4	809783-27-5	809783-29-7	809783-30-0
809783-31-1	809783-32-2	809783-33-3	809783-35-5	809783-36-6
809783-37-7	809783-38-8	809783-40-2	809783-41-3	809783-42-4
809783-43-5	809783-45-7	809783-46-8	809783-47-9	809783-48-0
809783-49-1	809783-51-5	809783-52-6	809783-53-7	809783-54-8
809783-56-0	809783-57-1	809783-58-2	809783-59-3	809783-61-7
809783-62-8	809783-63-9	809783-64-0	809783-66-2	809783-67-3
809783-68-4	809783-69-5	809783-71-9	809783-72-0	809783-73-1
809783-74-2	809783-75-3	809783-77-5	809783-78-6	809783-79-7
809783-81-1	809783-82-2	809783-83-3	809783-84-4	809783-85-5
809783-87-7	809783-88-8	809783-89-9	809783-90-2	809783-92-4
809783-93-5	809783-94-6	809783-95-7	809783-97-9	809783-98-0
809783-99-1	809784-00-7	809784-02-9	809784-03-0	809784-04-1
809784-05-2	809784-07-4	809784-08-5	809784-09-6	809784-10-9
809784-12-1	809784-13-2	809784-14-3	809784-15-4	809784-17-6
809784-18-7	809784-19-8	809784-20-1	809784-22-3	809784-23-4

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809784-24-5	809784-25-6	809784-27-8	809784-28-9	809784-29-0
	809784-30-3	809784-32-5	809784-33-6	809784-34-7	809784-35-8
	809784-37-0	809784-38-1	809784-39-2	809784-40-5	809784-41-6
	809784-43-8	809784-44-9	809784-45-0	809784-46-1	809784-48-3
	809784-49-4	809784-50-7	809784-51-8	809784-53-0	809784-54-1
	809784-55-2	809784-56-3	809784-57-4	809784-59-6	809784-60-9
	809784-61-0	809784-62-1	809784-64-3	809784-65-4	809784-66-5
	809784-67-6	809784-69-8	809784-70-1	809784-71-2	809784-72-3
	809784-74-5	809784-75-6	809784-76-7	809784-77-8	809784-79-0
	809784-80-3	809784-81-4	809784-82-5	809784-84-7	809784-85-8
	809784-86-9	809784-87-0	809784-89-2	809784-90-5	809784-91-6
	809784-92-7	809784-94-9	809784-95-0	809784-96-1	809784-97-2
	809784-99-4	809785-00-0	809785-01-1	809785-02-2	809785-04-4
	809785-05-5	809785-06-6	809785-07-7	809785-09-9	809785-10-2
	809785-11-3	809785-12-4	809785-14-6	809785-15-7	809785-16-8
	809785-17-9	809785-19-1	809785-20-4	809785-21-5	809785-22-6
	809785-24-8	809785-25-9	809785-26-0	809785-28-2	809785-29-3
	809785-30-6	809785-32-8	809785-33-9	809785-34-0	809785-35-1
	809785-37-3	809785-38-4	809785-39-5	809785-40-8	809785-42-0
	809785-43-1	809785-44-2	809785-45-3	809785-47-5	809785-48-6
	809785-49-7	809785-50-0	809785-52-2	809785-53-3	809785-54-4
	809785-55-5	809785-57-7	809785-58-8	809785-59-9	809785-60-2
	809785-62-4	809785-63-5	809785-64-6	809785-65-7	809785-67-9
	809785-68-0	809785-69-1	809785-70-4	809785-72-6	809785-73-7
	809785-74-8	809785-75-9	809785-77-1	809785-78-2	809785-79-3
	809785-80-6	809785-82-8	809785-83-9	809785-84-0	809785-85-1
	809785-87-3	809785-88-4	809785-89-5	809785-90-8	809785-92-0
	809785-93-1	809785-94-2	809785-95-3	809785-97-5	809785-98-6
	809785-99-7	809786-00-3	809786-02-5	809786-03-6	809786-04-7
	809786-05-8	809786-07-0	809786-08-1	809786-09-2	809786-10-5
	809786-12-7	809786-13-8	809786-14-9	809786-16-1	809786-17-2

809786-18-3	809786-19-4	809786-21-8	809786-22-9	809786-23-0
809786-24-1	809786-26-3	809786-27-4	809786-28-5	809786-29-6
809786-31-0	809786-32-1	809786-33-2	809786-35-4	809786-36-5
809786-37-6	809786-38-7	809786-40-1	809786-41-2	809786-42-3
809786-43-4	809786-45-6	809786-46-7	809786-47-8	809786-48-9
809786-50-3	809786-51-4	809786-52-5	809786-54-7	809786-55-8
809786-56-9	809786-57-0	809786-59-2	809786-60-5	809786-61-6
809786-62-7	809786-64-9	809786-65-0	809786-66-1	809786-68-3
809786-69-4	809786-70-7	809786-71-8	809786-73-0	809786-74-1
809786-75-2	809786-76-3	809786-78-5	809786-79-6	809786-80-9
809786-82-1	809786-83-2	809786-84-3	809786-85-4	809786-87-6
809786-88-7	809786-89-8	809786-90-1	809786-92-3	809786-93-4
809786-94-5	809786-95-6	809786-96-7	809786-98-9	809786-99-0
809787-00-6	809787-01-7	809787-03-9	809787-04-0	809787-05-1
809787-06-2	809787-08-4	809787-09-5	809787-10-8	809787-11-9
809787-13-1	809787-14-2	809787-15-3	809787-16-4	809787-18-6

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 809787-19-7	809787-20-0	809787-21-1	809787-23-3	809787-24-4
809787-25-5	809787-27-7	809787-28-8	809787-29-9	809787-30-2
809787-32-4	809787-33-5	809787-34-6	809787-35-7	809787-37-9
809787-38-0	809787-39-1	809787-40-4	809787-42-6	809787-43-7
809787-44-8	809787-46-0	809787-47-1	809787-48-2	809787-49-3
809787-51-7	809787-52-8	809787-53-9	809787-55-1	809787-56-2
809787-57-3	809787-58-4	809787-60-8	809787-61-9	809787-62-0
809787-64-2	809787-65-3	809787-66-4	809787-68-6	809787-69-7
809787-70-0	809787-72-2	809787-73-3	809787-74-4	809787-76-6
809787-77-7	809787-78-8	809787-79-9	809787-81-3	809787-82-4
809787-83-5	809787-85-7	809787-86-8	809787-87-9	809787-89-1
809787-90-4	809787-91-5	809787-93-7	809787-94-8	809787-95-9
809787-97-1	809787-98-2	809787-99-3	809788-00-9	809788-02-1
809788-03-2	809788-04-3	809788-06-5	809788-07-6	809788-08-7
809788-09-8	809788-11-2	809788-12-3	809788-13-4	809788-15-6
809788-16-7	809788-17-8	809788-18-9	809788-20-3	809788-21-4
809788-22-5	809788-24-7	809788-25-8	809788-26-9	809788-27-0
809788-29-2	809788-30-5	809788-31-6	809788-33-8	809788-34-9
809788-35-0	809788-37-2	809788-38-3	809788-39-4	809788-40-7
809788-42-9	809788-43-0	809788-44-1	809788-46-3	809788-47-4
809788-48-5	809788-49-6	809788-51-0	809788-52-1	809788-53-2
809788-54-3	809788-56-5	809788-57-6	809788-58-7	809788-60-1
809788-61-2	809788-62-3	809788-63-4	809788-65-6	809788-66-7
809788-67-8	809788-69-0	809788-70-3	809788-71-4	809788-73-6
809788-74-7	809788-75-8	809788-77-0	809788-78-1	809788-79-2
809788-81-6	809788-82-7	809788-83-8	809788-92-9	809788-93-0
809788-94-1	809788-96-3	809788-97-4	809788-98-5	809788-99-6
809789-01-3	809789-02-4	809789-03-5	809789-05-7	809789-06-8
809789-07-9	809789-08-0	809789-10-4	809789-11-5	809789-12-6
809789-14-8	809789-15-9	809789-16-0	809789-17-1	809789-19-3
809789-20-6	809789-21-7	809789-23-9	809789-24-0	809789-25-1
809789-27-3	809789-28-4	809789-29-5	809789-30-8	809789-32-0
809789-33-1	809789-34-2	809789-36-4	809789-37-5	809789-38-6
809789-39-7	809789-41-1	809789-42-2	809789-43-3	809789-45-5
809789-46-6	809789-47-7	809789-49-9	809789-50-2	809789-51-3
809789-53-5	809789-54-6	809789-55-7	809789-56-8	809789-58-0
809789-59-1	809789-60-4	809789-62-6	809789-63-7	809789-64-8
809789-65-9	809789-67-1	809789-68-2	809789-69-3	809789-71-7
809789-72-8	809789-73-9	809789-75-1	809789-76-2	809789-77-3
809789-79-5	809789-80-8	809789-82-0	809789-83-1	809789-84-2
809789-85-3	809789-86-4	809789-88-6	809789-89-7	809789-90-0

809789-92-2	809789-93-3	809789-94-4	809789-96-6	809789-97-7
809789-98-8	809790-00-9	809790-01-0	809790-02-1	809790-03-2
809790-05-4	809790-06-5	809790-07-6	809790-09-8	809790-10-1
809790-11-2	809790-12-3	809790-14-5	809790-15-6	809790-16-7
809790-18-9	809790-19-0	809790-20-3	809790-21-4	809790-23-6
809790-24-7	809790-25-8	809790-27-0	809790-28-1	809790-29-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809790-31-6	809790-32-7	809790-35-0	809790-36-1	809790-37-2
	809790-38-3	809790-40-7	809790-43-0	809790-45-2	809790-46-3
	809790-47-4	809790-48-5	809790-50-9	809790-51-0	809790-52-1
	809790-54-3	809790-55-4	809790-56-5	809790-58-7	809790-59-8
	809790-61-2	809790-62-3	809790-63-4	809790-65-6	809790-66-7
	809790-67-8	809790-68-9	809790-70-3	809790-71-4	809790-72-5
	809790-74-7	809790-75-8	809790-76-9	809790-78-1	809790-79-2
	809790-80-5	809790-81-6	809790-83-8	809790-84-9	809790-85-0
	809790-86-1	809790-87-2	809790-88-3	809790-90-7	809790-91-8
	809790-92-9	809790-93-0	809790-95-2	809790-96-3	809790-97-4
	809790-99-6	809791-00-2	809791-01-3	809791-03-5	809791-04-6
	809791-05-7	809791-06-8	809791-08-0	809791-09-1	809791-10-4
	809791-12-6	809791-13-7	809791-14-8	809791-16-0	809791-17-1
	809791-18-2	809791-19-3	809791-21-7	809791-22-8	809791-23-9
	809791-25-1	809791-26-2	809791-27-3	809791-28-4	809791-30-8
	809791-31-9	809791-32-0	809791-34-2	809791-35-3	809791-36-4
	809791-37-5	809791-39-7	809791-40-0	809791-42-2	809791-43-3
	809791-44-4	809791-45-5	809791-47-7	809791-48-8	809791-49-9
	809791-51-3	809791-52-4	809791-53-5	809791-55-7	809791-56-8
	809791-57-9	809791-58-0	809791-60-4	809791-61-5	809791-62-6
	809791-63-7	809791-65-9	809791-66-0	809791-67-1	809791-69-3
	809791-70-6	809791-71-7	809791-72-8	809791-74-0	809791-75-1
	809791-76-2	809791-77-3	809791-79-5	809791-80-8	809791-81-9
	809791-83-1	809791-84-2	809791-85-3	809791-86-4	809791-87-5
	809791-88-6	809791-90-0	809791-91-1	809791-92-2	809791-94-4
	809791-95-5	809791-96-6	809791-97-7	809791-99-9	809792-00-5
	809792-01-6	809792-03-8	809792-04-9	809792-06-1	809792-07-2
	809792-08-3	809792-10-7	809792-11-8	809792-12-9	809792-13-0
	809792-15-2	809792-16-3	809792-17-4	809792-19-6	809792-20-9
	809792-21-0	809792-22-1	809792-24-3	809792-25-4	809792-26-5
	809792-28-7	809792-29-8	809792-30-1	809792-32-3	809792-33-4
	809792-36-7	809792-37-8	809792-38-9	809792-39-0	809792-41-4
	809792-42-5	809792-43-6	809792-45-8	809792-46-9	809792-47-0
	809792-49-2	809792-50-5	809792-51-6	809792-53-8	809792-54-9
	809792-55-0	809792-56-1	809792-58-3	809792-59-4	809792-60-7
	809792-62-9	809792-63-0	809792-64-1	809792-65-2	809792-67-4
	809792-68-5	809792-69-6	809792-71-0	809792-72-1	809792-73-2
	809792-74-3	809792-76-5	809792-77-6	809792-78-7	809792-80-1
	809792-81-2	809792-82-3	809792-84-5	809792-85-6	809792-86-7
	809792-87-8	809792-91-4	809792-93-6	809792-94-7	809792-96-9
	809792-97-0	809792-98-1	809792-99-2	809793-01-9	809793-02-0
	809793-03-1	809793-05-3	809793-06-4	809793-08-6	809793-09-7
	809793-10-0	809793-11-1	809793-13-3	809793-14-4	809793-15-5
	809793-17-7	809793-18-8	809793-19-9	809793-21-3	809793-22-4
	809793-23-5	809793-25-7	809793-26-8	809793-27-9	809793-29-1
	809793-30-4	809793-31-5	809793-33-7	809793-34-8	809793-35-9
	809793-37-1	809793-38-2	809793-39-3	809793-41-7	809793-42-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809793-43-9	809793-44-0	809793-46-2	809793-47-3	809793-48-4
	809793-50-8	809793-51-9	809793-52-0	809793-54-2	809793-55-3
	809793-56-4	809793-58-6	809793-59-7	809793-60-0	809793-62-2
	809793-63-3	809793-64-4	809793-65-5	809793-66-6	809793-67-7
	809793-68-8	809793-69-9	809793-70-2	809793-71-3	809793-72-4
	809793-73-5	809793-74-6	809793-75-7	809793-76-8	809793-77-9
	809793-78-0	809793-79-1	809793-80-4	809793-81-5	809793-82-6
	809793-83-7	809793-84-8	809793-85-9	809793-86-0	809793-87-1
	809793-88-2	809793-89-3	809793-90-6	809793-91-7	809793-92-8
	809793-93-9	809793-94-0	809793-95-1	809793-96-2	809793-97-3
	809793-98-4	809793-99-5	809794-00-1	809794-01-2	809794-02-3
	809794-03-4	809794-04-5	809794-05-6	809794-06-7	809794-07-8
	809794-08-9	809794-09-0	809794-10-3	809794-11-4	809794-12-5
	809794-13-6	809794-14-7	809794-15-8	809794-16-9	809794-17-0
	809794-18-1	809794-19-2	809794-20-5	809794-21-6	809794-22-7
	809794-23-8	809794-24-9	809794-25-0	809794-26-1	809794-27-2
	809794-28-3	809794-29-4	809794-30-7	809794-31-8	809794-32-9
	809794-33-0	809794-34-1	809794-35-2	809794-36-3	809794-37-4
	809794-38-5	809794-39-6	809794-40-9	809794-41-0	809794-42-1
	809794-43-2	809794-44-3	809794-45-4	809794-46-5	809794-47-6
	809794-48-7	809794-49-8	809794-50-1	809794-51-2	809794-52-3
	809794-53-4	809794-54-5	809794-55-6	809794-56-7	809794-57-8
	809794-58-9	809794-59-0	809794-60-3	809794-61-4	809794-62-5
	809794-63-6	809794-64-7	809794-65-8	809794-66-9	809794-67-0
	809794-68-1	809794-69-2	809794-70-5	809794-71-6	809794-72-7
	809794-73-8	809794-74-9	809794-75-0	809794-76-1	809794-77-2
	809794-78-3	809794-79-4	809794-80-7	809794-81-8	809794-82-9
	809794-83-0	809794-84-1	809794-85-2	809794-86-3	809794-87-4
	809794-88-5	809794-89-6	809794-90-9	809794-91-0	809794-92-1
	809794-93-2	809794-94-3	809794-95-4	809794-96-5	809794-97-6
	809794-98-7	809794-99-8	809795-00-4	809795-01-5	809795-02-6
	809795-03-7	809795-04-8	809795-05-9	809795-06-0	809795-07-1
	809795-08-2	809795-09-3	809795-10-6	809795-11-7	809795-12-8
	809795-13-9	809795-14-0	809795-15-1	809795-16-2	809795-17-3
	809795-18-4	809795-19-5	809795-20-8	809795-21-9	809795-22-0
	809795-23-1	809795-24-2	809795-25-3	809795-26-4	809795-27-5
	809795-28-6	809795-29-7	809795-30-0	809795-31-1	809795-32-2
	809795-33-3	809795-34-4	809795-35-5	809795-36-6	809795-37-7
	809795-38-8	809795-39-9	809795-40-2	809795-41-3	809795-42-4
	809795-43-5	809795-44-6	809795-45-7	809795-46-8	809795-47-9
	809795-48-0	809795-49-1	809795-50-4	809795-51-5	809795-52-6
	809795-53-7	809795-54-8	809795-55-9	809795-56-0	809795-57-1
	809795-58-2	809795-59-3	809795-60-6	809795-61-7	809795-62-8
	809795-63-9	809795-64-0	809795-65-1	809795-66-2	809795-67-3
	809795-68-4	809795-69-5	809795-70-8	809795-71-9	809795-72-0
	809795-73-1	809795-74-2	809795-75-3	809795-76-4	809795-77-5
	809795-78-6	809795-79-7	809795-80-0	809795-81-1	809795-82-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809795-83-3	809795-84-4	809795-85-5	809795-86-6	809795-87-7
	809795-88-8	809795-89-9	809795-90-2	809795-91-3	809795-92-4
	809795-93-5	809795-94-6	809795-95-7	809795-96-8	809795-97-9
	809795-98-0	809795-99-1	809796-00-7	809796-01-8	809796-02-9
	809796-03-0	809796-04-1	809796-05-2	809796-06-3	809796-07-4
	809796-08-5	809796-09-6	809796-10-9	809796-11-0	809796-12-1
	809796-13-2	809796-14-3	809796-15-4	809796-16-5	809796-17-6
	809796-18-7	809796-19-8	809796-20-1	809796-21-2	809796-22-3
	809796-23-4	809796-24-5	809796-25-6	809796-26-7	809796-27-8
	809796-28-9	809796-29-0	809796-30-3	809796-31-4	809796-32-5

809796-33-6	809796-34-7	809796-35-8	809796-36-9	809796-37-0
809796-38-1	809796-39-2	809796-40-5	809796-41-6	809796-42-7
809796-43-8	809796-44-9	809796-45-0	809796-46-1	809796-47-2
809796-48-3	809796-49-4	809796-50-7	809796-51-8	809796-52-9
809796-53-0	809796-54-1	809796-55-2	809796-56-3	809796-57-4
809796-58-5	809796-59-6	809796-60-9	809796-61-0	809796-62-1
809796-63-2	809796-64-3	809796-65-4	809796-66-5	809796-67-6
809796-68-7	809796-69-8	809796-70-1	809796-71-2	809796-72-3
809796-73-4	809796-74-5	809796-75-6	809796-76-7	809796-77-8
809796-78-9	809796-79-0	809796-80-3	809796-81-4	809796-82-5
809796-83-6	809796-84-7	809796-85-8	809796-86-9	809796-87-0
809796-88-1	809796-89-2	809796-90-5	809796-91-6	809796-92-7
809796-93-8	809796-94-9	809796-95-0	809796-96-1	809796-97-2
809796-98-3	809796-99-4	809797-00-0	809797-01-1	809797-02-2
809797-03-3	809797-04-4	809797-05-5	809797-06-6	809797-07-7
809797-08-8	809797-09-9	809797-10-2	809797-11-3	809797-12-4
809797-13-5	809797-14-6	809797-15-7	809797-16-8	809797-17-9
809797-18-0	809797-19-1	809797-20-4	809797-21-5	809797-22-6
809797-23-7	809797-24-8	809797-25-9	809797-26-0	809797-27-1
809797-28-2	809797-29-3	809797-30-6	809797-31-7	809797-32-8
809797-33-9	809797-34-0	809797-35-1	809797-36-2	809797-37-3
809797-38-4	809797-39-5	809797-40-8	809797-41-9	809797-42-0
809797-43-1	809797-44-2	809797-45-3	809797-46-4	809797-47-5
809797-48-6	809797-49-7	809797-50-0	809797-51-1	809797-52-2
809797-53-3	809797-54-4	809797-55-5	809797-56-6	809797-57-7
809797-58-8	809797-59-9	809797-60-2	809797-61-3	809797-62-4
809797-63-5	809797-64-6	809797-65-7	809797-66-8	809797-67-9
809797-68-0	809797-69-1	809797-70-4	809797-71-5	809797-72-6
809797-73-7	809797-74-8	809797-75-9	809797-76-0	809797-77-1
809797-78-2	809797-79-3	809797-80-6	809797-81-7	809797-82-8
809797-83-9	809797-84-0	809797-85-1	809797-86-2	809797-87-3
809797-88-4	809797-89-5	809797-90-8	809797-91-9	809797-92-0
809797-93-1	809797-94-2	809797-95-3	809797-96-4	809797-97-5
809797-98-6	809797-99-7	809798-00-3	809798-01-4	809798-02-5
809798-03-6	809798-04-7	809798-05-8	809798-06-9	809798-07-0
809798-08-1	809798-09-2	809798-10-5	809798-11-6	809798-12-7
809798-13-8	809798-14-9	809798-15-0	809798-16-1	809798-17-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 809798-18-3	809798-19-4	809798-20-7	809798-21-8	809798-22-9
809798-23-0	809798-24-1	809798-25-2	809798-26-3	809798-27-4
809798-28-5	809798-29-6	809798-30-9	809798-31-0	809798-32-1
809798-33-2	809798-34-3	809798-35-4	809798-36-5	809798-37-6
809798-38-7	809798-39-8	809798-40-1	809798-41-2	809798-42-3
809798-43-4	809798-44-5	809798-45-6	809798-46-7	809798-47-8
809798-48-9	809798-49-0	809798-50-3	809798-51-4	809798-52-5
809798-53-6	809798-54-7	809798-55-8	809798-56-9	809798-57-0
809798-58-1	809798-59-2	809798-60-5	809798-61-6	809798-62-7
809798-63-8	809798-64-9	809798-65-0	809798-66-1	809798-67-2
809798-68-3	809798-69-4	809798-70-7	809798-71-8	809798-72-9
809798-73-0	809798-74-1	809798-75-2	809798-76-3	809798-77-4
809798-78-5	809798-79-6	809798-80-9	809798-81-0	809798-82-1
809798-83-2	809798-84-3	809798-85-4	809798-86-5	809798-87-6
809798-88-7	809798-89-8	809798-90-1	809798-91-2	809798-92-3
809798-93-4	809798-94-5	809798-95-6	809798-96-7	809798-97-8
809798-98-9	809799-00-0	809799-01-7	809799-02-8	809799-03-9
809799-03-9	809799-04-0	809799-05-1	809799-06-2	809799-07-3
809799-08-4	809799-09-5	809799-10-8	809799-11-9	809799-12-0
809799-13-1	809799-14-2	809799-15-3	809799-16-4	809799-17-5

809799-18-6	809799-19-7	809799-20-0	809799-21-1	809799-22-2
809799-23-3	809799-24-4	809799-25-5	809799-26-6	809799-27-7
809799-28-8	809799-29-9	809799-30-2	809799-31-3	809799-32-4
809799-33-5	809799-34-6	809799-35-7	809799-36-8	809799-37-9
809799-38-0	809799-39-1	809799-40-4	809799-41-5	809799-42-6
809799-43-7	809799-44-8	809799-45-9	809799-46-0	809799-47-1
809799-48-2	809799-49-3	809799-50-6	809799-51-7	809799-52-8
809799-53-9	809799-54-0	809799-55-1	809799-56-2	809799-57-3
809799-58-4	809799-59-5	809799-60-8	809799-61-9	809799-62-0
809799-63-1	809799-64-2	809799-65-3	809799-66-4	809799-67-5
809799-68-6	809799-69-7	809799-70-0	809799-71-1	809799-72-2
809799-73-3	809799-74-4	809799-75-5	809799-76-6	809799-77-7
809799-78-8	809799-79-9	809799-80-2	809799-81-3	809799-82-4
809799-83-5	809799-84-6	809799-85-7	809799-86-8	809799-87-9
809799-88-0	809799-89-1	809799-90-4	809799-91-5	809799-92-6
809799-93-7	809799-94-8	809799-95-9	809799-96-0	809799-97-1
809799-98-2	809799-99-3	809800-00-8	809800-01-9	809800-02-0
809800-03-1	809800-04-2	809800-05-3	809800-06-4	809800-07-5
809800-08-6	809800-09-7	809800-10-0	809800-11-1	809800-12-2
809800-13-3	809800-14-4	809800-15-5	809800-16-6	809800-17-7
809800-18-8	809800-19-9	809800-20-2	809800-21-3	809800-22-4
809800-23-5	809800-24-6	809800-25-7	809800-26-8	809800-27-9
809800-28-0	809800-29-1	809800-30-4	809800-31-5	809800-32-6
809800-33-7	809800-34-8	809800-35-9	809800-36-0	809800-37-1
809800-38-2	809800-39-3	809800-40-6	809800-41-7	809800-42-8
809800-43-9	809800-44-0	809800-45-1	809800-46-2	809800-47-3
809800-48-4	809800-49-5	809800-50-8	809800-51-9	809800-52-0

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809800-53-1	809800-54-2	809800-55-3	809800-56-4	809800-57-5
	809800-58-6	809800-59-7	809800-60-0	809800-61-1	809800-62-2
	809800-63-3	809800-64-4	809800-65-5	809800-66-6	809800-67-7
	809800-68-8	809800-69-9	809800-70-2	809800-71-3	809800-72-4
	809800-73-5	809800-74-6	809800-75-7	809800-76-8	809800-77-9
	809800-78-0	809800-79-1	809800-80-4	809800-81-5	809800-82-6
	809800-83-7	809800-84-8	809800-85-9	809800-86-0	809800-87-1
	809800-88-2	809800-89-3	809800-90-6	809800-91-7	809800-92-8
	809800-93-9	809800-94-0	809800-95-1	809800-96-2	809800-97-3
	809800-98-4	809800-99-5	809801-00-1	809801-01-2	809801-02-3
	809801-03-4	809801-04-5	809801-05-6	809801-06-7	809801-07-8
	809801-08-9	809801-09-0	809801-10-3	809801-11-4	809801-12-5
	809801-13-6	809801-14-7	809801-15-8	809801-16-9	809801-17-0
	809801-18-1	809801-19-2	809801-20-5	809801-21-6	809801-22-7
	809801-23-8	809801-24-9	809801-25-0	809801-26-1	809801-27-2
	809801-28-3	809801-29-4	809801-30-7	809801-31-8	809801-32-9
	809801-33-0	809801-34-1	809801-35-2	809801-36-3	809801-37-4
	809801-38-5	809801-39-6	809801-40-9	809801-41-0	809801-42-1
	809801-43-2	809801-44-3	809801-45-4	809801-46-5	809801-47-6
	809801-48-7	809801-49-8	809801-50-1	809801-51-2	809801-52-3
	809801-53-4	809801-54-5	809801-55-6	809801-56-7	809801-57-8
	809801-58-9	809801-59-0	809801-60-3	809801-61-4	809801-62-5
	809801-63-6	809801-64-7	809801-65-8	809801-66-9	809801-67-0
	809801-68-1	809801-69-2	809801-70-5	809801-71-6	809801-72-7
	809801-73-8	809801-74-9	809801-75-0	809801-76-1	809801-77-2
	809801-78-3	809801-79-4	809801-80-7	809801-81-8	809801-82-9
	809801-83-0	809801-84-1	809801-85-2	809801-86-3	809801-87-4
	809801-88-5	809801-89-6	809801-90-9	809801-91-0	809801-92-1
	809801-93-2	809801-94-3	809801-95-4	809801-96-5	809801-97-6
	809801-98-7	809801-99-8	809802-00-4	809802-01-5	809802-02-6

809802-03-7	809802-04-8	809802-05-9	809802-06-0	809802-07-1
809802-08-2	809802-09-3	809802-10-6	809802-11-7	809802-12-8
809802-13-9	809802-14-0	809802-15-1	809802-16-2	809802-17-3
809802-18-4	809802-19-5	809802-20-8	809802-21-9	809802-22-0
809802-23-1	809802-24-2	809802-25-3	809802-26-4	809802-27-5
809802-28-6	809802-29-7	809802-30-0	809802-31-1	809802-32-2
809802-33-3	809802-34-4	809802-35-5	809802-36-6	809802-37-7
809802-38-8	809802-39-9	809802-40-2	809802-41-3	809802-42-4
809802-43-5	809802-44-6	809802-45-7	809802-46-8	809802-47-9
809802-48-0	809802-49-1	809802-50-4	809802-51-5	809802-52-6
809802-53-7	809802-54-8	809802-55-9	809802-56-0	809802-57-1
809802-58-2	809802-59-3	809802-60-6	809802-61-7	809802-62-8
809802-63-9	809802-64-0	809802-65-1	809802-66-2	809802-67-3
809802-68-4	809802-69-5	809802-70-8	809802-71-9	809802-72-0
809802-73-1	809802-74-2	809802-75-3	809802-76-4	809802-77-5
809802-78-6	809802-79-7	809802-80-0	809802-81-1	809802-82-2
809802-83-3	809802-84-4	809802-85-5	809802-86-6	809802-87-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809802-88-8	809802-89-9	809802-90-2	809802-91-3	809802-92-4
	809802-93-5	809802-94-6	809802-95-7	809802-96-8	809802-97-9
	809802-98-0	809802-99-1	809803-00-7	809803-01-8	809803-02-9
	809803-03-0	809803-04-1	809803-05-2	809803-06-3	809803-07-4
	809803-08-5	809803-09-6	809803-10-9	809803-11-0	809803-12-1
	809803-13-2	809803-14-3	809803-15-4	809803-16-5	809803-17-6
	809803-18-7	809803-19-8	809803-20-1	809803-21-2	809803-22-3
	809803-23-4	809803-24-5	809803-25-6	809803-26-7	809803-27-8
	809803-28-9	809803-29-0	809803-30-3	809803-31-4	809803-32-5
	809803-33-6	809803-34-7	809803-35-8	809803-36-9	809803-37-0
	809803-38-1	809803-39-2	809803-40-5	809803-41-6	809803-42-7
	809803-43-8	809803-44-9	809803-45-0	809803-46-1	809803-47-2
	809803-48-3	809803-49-4	809803-50-7	809803-51-8	809803-52-9
	809803-53-0	809803-54-1	809803-55-2	809803-56-3	809803-57-4
	809803-58-5	809803-59-6	809803-60-9	809803-61-0	809803-62-1
	809803-63-2	809803-64-3	809803-65-4	809803-66-5	809803-67-6
	809803-68-7	809803-69-8	809803-70-1	809803-71-2	809803-72-3
	809803-73-4	809803-74-5	809803-75-6	809803-76-7	809803-77-8
	809803-78-9	809803-79-0	809803-80-3	809803-81-4	809803-82-5
	809803-83-6	809803-84-7	809803-85-8	809803-86-9	809803-87-0
	809803-88-1	809803-89-2	809803-90-5	809803-91-6	809803-92-7
	809803-93-8	809803-94-9	809803-95-0	809803-96-1	809803-97-2
	809803-98-3	809803-99-4	809804-00-0	809804-01-1	809804-02-2
	809804-03-3	809804-04-4	809804-05-5	809804-06-6	809804-07-7
	809804-08-8	809804-09-9	809804-10-2	809804-11-3	809804-12-4
	809804-13-5	809804-14-6	809804-15-7	809804-16-8	809804-17-9
	809804-18-0	809804-19-1	809804-20-4	809804-21-5	809804-22-6
	809804-23-7	809804-24-8	809804-25-9	809804-26-0	809804-27-1
	809804-28-2	809804-29-3	809804-30-6	809804-31-7	809804-32-8
	809804-33-9	809804-34-0	809804-35-1	809804-36-2	809804-37-3
	809804-38-4	809804-39-5	809804-40-8	809804-41-9	809804-42-0
	809804-43-1	809804-44-2	809804-45-3	809804-46-4	809804-47-5
	809804-48-6	809804-49-7	809804-50-0	809804-51-1	809804-52-2
	809804-53-3	809804-54-4	809804-55-5	809804-56-6	809804-57-7
	809804-58-8	809804-59-9	809804-60-2	809804-61-3	809804-62-4
	809804-63-5	809804-64-6	809804-65-7	809804-66-8	809804-67-9
	809804-68-0	809804-69-1	809804-70-4	809804-71-5	809804-72-6
	809804-73-7	809804-74-8	809804-75-9	809804-76-0	809804-77-1
	809804-78-2	809804-79-3	809804-80-6	809804-81-7	809804-82-8
	809804-83-9	809804-84-0	809804-85-1	809804-86-2	809804-87-3

809804-88-4	809804-89-5	809804-90-8	809804-91-9	809804-92-0
809804-93-1	809804-94-2	809804-95-3	809804-96-4	809804-97-5
809804-98-6	809804-99-7	809805-00-3	809805-01-4	809805-02-5
809805-03-6	809805-04-7	809805-05-8	809805-06-9	809805-07-0
809805-08-1	809805-09-2	809805-10-5	809805-11-6	809805-12-7
809805-13-8	809805-14-9	809805-15-0	809805-16-1	809805-17-2
809805-18-3	809805-19-4	809805-20-7	809805-21-8	809805-22-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809805-23-0	809805-24-1	809805-25-2	809805-26-3	809805-27-4
	809805-28-5	809805-29-6	809805-30-9	809805-31-0	809805-32-1
	809805-33-2	809805-34-3	809805-35-4	809805-36-5	809805-37-6
	809805-38-7	809805-39-8	809805-40-1	809805-41-2	809805-42-3
	809805-43-4	809805-44-5	809805-45-6	809805-46-7	809805-47-8
	809805-48-9	809805-49-0	809805-50-3	809805-51-4	809805-52-5
	809805-53-6	809805-54-7	809805-55-8	809805-56-9	809805-57-0
	809805-58-1	809805-59-2	809805-60-5	809805-61-6	809805-62-7
	809805-63-8	809805-64-9	809805-65-0	809805-66-1	809805-67-2
	809805-68-3	809805-69-4	809805-70-7	809805-71-8	809805-72-9
	809805-73-0	809805-74-1	809805-75-2	809805-76-3	809805-77-4
	809805-78-5	809805-79-6	809805-80-9	809805-81-0	809805-82-1
	809805-83-2	809805-84-3	809805-85-4	809805-86-5	809805-87-6
	809805-88-7	809805-89-8	809805-90-1	809805-91-2	809805-92-3
	809805-93-4	809805-94-5	809805-95-6	809805-96-7	809805-97-8
	809805-98-9	809805-99-0	809806-00-6	809806-01-7	809806-02-8
	809806-03-9	809806-04-0	809806-05-1	809806-06-2	809806-07-3
	809806-08-4	809806-09-5	809806-10-8	809806-11-9	809806-12-0
	809806-13-1	809806-14-2	809806-15-3	809806-16-4	809806-17-5
	809806-18-6	809806-19-7	809806-20-0	809806-21-1	809806-22-2
	809806-23-3	809806-24-4	809806-25-5	809806-26-6	809806-27-7
	809806-28-8	809806-29-9	809806-30-2	809806-31-3	809806-32-4
	809806-33-5	809806-34-6	809806-35-7	809806-36-8	809806-37-9
	809806-38-0	809806-39-1	809806-40-4	809806-41-5	809806-42-6
	809806-43-7	809806-44-8	809806-45-9	809806-46-0	809806-47-1
	809806-48-2	809806-49-3	809806-50-6	809806-51-7	809806-52-8
	809806-53-9	809806-54-0	809806-55-1	809806-56-2	809806-57-3
	809806-58-4	809806-59-5	809806-60-8	809806-61-9	809806-62-0
	809806-63-1	809806-64-2	809806-65-3	809806-66-4	809806-67-5
	809806-68-6	809806-69-7	809806-70-0	809806-71-1	809806-72-2
	809806-73-3	809806-74-4	809806-75-5	809806-76-6	809806-77-7
	809806-78-8	809806-79-9	809806-80-2	809806-81-3	809806-82-4
	809806-83-5	809806-84-6	809806-85-7	809806-86-8	809806-87-9
	809806-88-0	809806-89-1	809806-90-4	809806-91-5	809806-92-6
	809806-93-7	809806-94-8	809806-95-9	809806-96-0	809806-97-1
	809806-98-2	809806-99-3	809807-00-9	809807-01-0	809807-02-1
	809807-03-2	809807-04-3	809807-05-4	809807-06-5	809807-07-6
	809807-08-7	809807-09-8	809807-10-1	809807-11-2	809807-12-3
	809807-13-4	809807-14-5	809807-15-6	809807-16-7	809807-17-8
	809807-18-9	809807-19-0	809807-20-3	809807-21-4	809807-22-5
	809807-23-6	809807-24-7	809807-25-8	809807-26-9	809807-27-0
	809807-28-1	809807-29-2	809807-30-5	809807-31-6	809807-32-7
	809807-33-8	809807-34-9	809807-35-0	809807-36-1	809807-37-2
	809807-38-3	809807-39-4	809807-40-7	809807-41-8	809807-42-9
	809807-43-0	809807-44-1	809807-45-2	809807-46-3	809807-47-4
	809807-48-5	809807-49-6	809807-50-9	809807-51-0	809807-52-1
	809807-53-2	809807-54-3	809807-55-4	809807-56-5	809807-57-6

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated)

with maize and their uses for plant improvement)				
IT	809807-58-7	809807-59-8	809807-60-1	809807-61-2
	809807-63-4	809807-64-5	809807-65-6	809807-66-7
	809807-68-9	809807-69-0	809807-70-3	809807-71-4
	809807-73-6	809807-74-7	809807-75-8	809807-76-9
	809807-78-1	809807-79-2	809807-80-5	809807-81-6
	809807-83-8	809807-84-9	809807-85-0	809807-86-1
	809807-88-3	809807-89-4	809807-90-7	809807-91-8
	809807-93-0	809807-94-1	809807-95-2	809807-96-3
	809807-98-5	809807-99-6	809808-00-2	809808-01-3
	809808-03-5	809808-04-6	809808-05-7	809808-06-8
	809808-08-0	809808-09-1	809808-10-4	809808-11-5
	809808-13-7	809808-14-8	809808-15-9	809808-16-0
	809808-18-2	809808-19-3	809808-20-6	809808-21-7
	809808-23-9	809808-24-0	809808-25-1	809808-26-2
	809808-28-4	809808-29-5	809808-30-8	809808-31-9
	809808-33-1	809808-34-2	809808-35-3	809808-36-4
	809808-38-6	809808-39-7	809808-40-0	809808-41-1
	809808-43-3	809808-44-4	809808-45-5	809808-46-6
	809808-48-8	809808-49-9	809808-50-2	809808-51-3
	809808-53-5	809808-54-6	809808-55-7	809808-56-8
	809808-58-0	809808-59-1	809808-60-4	809808-61-5
	809808-63-7	809808-64-8	809808-65-9	809808-66-0
	809808-68-2	809808-69-3	809808-70-6	809808-71-7
	809808-73-9	809808-74-0	809808-75-1	809808-76-2
	809808-78-4	809808-79-5	809808-80-8	809808-81-9
	809808-83-1	809808-84-2	809808-85-3	809808-86-4
	809808-88-6	809808-89-7	809808-90-0	809808-91-1
	809808-93-3	809808-94-4	809808-95-5	809808-96-6
	809808-98-8	809808-99-9	809809-00-5	809809-01-6
	809809-03-8	809809-04-9	809809-05-0	809809-06-1
	809809-08-3	809809-09-4	809809-10-7	809809-11-8
	809809-13-0	809809-14-1	809809-15-2	809809-16-3
	809809-18-5	809809-19-6	809809-20-9	809809-21-0
	809809-23-2	809809-24-3	809809-25-4	809809-26-5
	809809-28-7	809809-29-8	809809-30-1	809809-31-2
	809809-33-4	809809-34-5	809809-35-6	809809-36-7
	809809-38-9	809809-39-0	809809-40-3	809809-41-4
	809809-43-6	809809-44-7	809809-45-8	809809-46-9
	809809-48-1	809809-49-2	809809-50-5	809809-51-6
	809809-53-8	809809-54-9	809809-55-0	809809-56-1
	809809-58-3	809809-59-4	809809-60-7	809809-61-8
	809809-63-0	809809-64-1	809809-65-2	809809-66-3
	809809-68-5	809809-69-6	809809-70-9	809809-71-0
	809809-73-2	809809-74-3	809809-75-4	809809-76-5
	809809-78-7	809809-79-8	809809-80-1	809809-81-2
	809809-83-4	809809-84-5	809809-85-6	809809-86-7
	809809-88-9	809809-89-0	809809-90-3	809809-91-4

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated
 with maize and their uses for plant improvement)

IT	809809-93-6	809809-94-7	809809-95-8	809809-96-9
	809809-98-1	809809-99-2	809810-00-2	809810-01-3
	809810-03-5	809810-04-6	809810-05-7	809810-06-8
	809810-08-0	809810-09-1	809810-10-4	809810-11-5
	809810-13-7	809810-14-8	809810-15-9	809810-16-0
	809810-18-2	809810-19-3	809810-20-6	809810-21-7
	809810-23-9	809810-24-0	809810-25-1	809810-26-2
	809810-28-4	809810-29-5	809810-30-8	809810-31-9
	809810-33-1	809810-34-2	809810-35-3	809810-36-4

809810-38-6	809810-39-7	809810-40-0	809810-41-1	809810-42-2
809810-43-3	809810-44-4	809810-45-5	809810-46-6	809810-47-7
809810-48-8	809810-49-9	809810-50-2	809810-51-3	809810-52-4
809810-53-5	809810-54-6	809810-55-7	809810-56-8	809810-57-9
809810-58-0	809810-59-1	809810-60-4	809810-61-5	809810-62-6
809810-63-7	809810-64-8	809810-65-9	809810-66-0	809810-67-1
809810-68-2	809810-69-3	809810-70-6	809810-71-7	809810-72-8
809810-73-9	809810-74-0	809810-75-1	809810-76-2	809810-77-3
809810-78-4	809810-79-5	809810-80-8	809810-81-9	809810-82-0
809810-83-1	809810-84-2	809810-85-3	809810-86-4	809810-87-5
809810-88-6	809810-89-7	809810-90-0	809810-91-1	809810-92-2
809810-93-3	809810-94-4	809810-95-5	809810-96-6	809810-97-7
809810-98-8	809810-99-9	809811-00-5	809811-01-6	809811-02-7
809811-03-8	809811-04-9	809811-05-0	809811-06-1	809811-07-2
809811-08-3	809811-09-4	809811-10-7	809811-11-8	809811-12-9
809811-13-0	809811-14-1	809811-15-2	809811-16-3	809811-17-4
809811-18-5	809811-19-6	809811-20-9	809811-21-0	809811-22-1
809811-23-2	809811-24-3	809811-25-4	809811-26-5	809811-27-6
809811-28-7	809811-29-8	809811-30-1	809811-31-2	809811-32-3
809811-33-4	809811-34-5	809811-35-6	809811-36-7	809811-37-8
809811-38-9	809811-39-0	809811-40-3	809811-41-4	809811-42-5
809811-43-6	809811-44-7	809811-45-8	809811-46-9	809811-47-0
809811-48-1	809811-49-2	809811-50-5	809811-51-6	809811-52-7
809811-53-8	809811-54-9	809811-55-0	809811-56-1	809811-57-2
809811-58-3	809811-59-4	809811-60-7	809811-61-8	809811-62-9
809811-63-0	809811-64-1	809811-65-2	809811-66-3	809811-67-4
809811-68-5	809811-69-6	809811-70-9	809811-71-0	809811-72-1
809811-73-2	809811-74-3	809811-75-4	809811-76-5	809811-77-6
809811-78-7	809811-79-8	809811-80-1	809811-81-2	809811-82-3
809811-83-4	809811-84-5	809811-85-6	809811-86-7	809811-87-8
809811-88-9	809811-89-0	809811-90-3	809811-91-4	809811-92-5
809811-93-6	809811-94-7	809811-95-8	809811-96-9	809811-97-0
809811-98-1	809811-99-2	809812-00-8	809812-01-9	809812-02-0
809812-03-1	809812-04-2	809812-05-3	809812-06-4	809812-07-5
809812-08-6	809812-09-7	809812-10-0	809812-11-1	809812-12-2
809812-13-3	809812-14-4	809812-15-5	809812-16-6	809812-17-7
809812-18-8	809812-19-9	809812-20-2	809812-21-3	809812-22-4
809812-23-5	809812-24-6	809812-25-7	809812-26-8	809812-27-9

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809812-28-0	809812-29-1	809812-30-4	809812-31-5	809812-32-6
	809812-33-7	809812-34-8	809812-35-9	809812-36-0	809812-37-1
	809812-38-2	809812-39-3	809812-40-6	809812-41-7	809812-42-8
	809812-43-9	809812-44-0	809812-45-1	809812-46-2	809812-47-3
	809812-48-4	809812-49-5	809812-50-8	809812-51-9	809812-52-0
	809812-53-1	809812-54-2	809812-55-3	809812-56-4	809812-57-5
	809812-58-6	809812-59-7	809812-60-0	809812-61-1	809812-62-2
	809812-63-3	809812-64-4	809812-65-5	809812-66-6	809812-67-7
	809812-68-8	809812-69-9	809812-70-2	809812-71-3	809812-72-4
	809812-73-5	809812-74-6	809812-75-7	809812-76-8	809812-77-9
	809812-78-0	809812-79-1	809812-80-4	809812-81-5	809812-82-6
	809812-83-7	809812-84-8	809812-85-9	809812-86-0	809812-87-1
	809812-88-2	809812-89-3	809812-90-6	809812-91-7	809812-92-8
	809812-93-9	809812-94-0	809812-95-1	809812-96-2	809812-97-3
	809812-98-4	809812-99-5	809813-00-1	809813-01-2	809813-02-3
	809813-03-4	809813-04-5	809813-05-6	809813-06-7	809813-07-8
	809813-08-9	809813-09-0	809813-10-3	809813-11-4	809813-12-5
	809813-13-6	809813-14-7	809813-15-8	809813-16-9	809813-17-0
	809813-18-1	809813-19-2	809813-20-5	809813-21-6	809813-22-7

809813-23-8	809813-24-9	809813-25-0	809813-26-1	809813-27-2
809813-28-3	809813-29-4	809813-30-7	809813-31-8	809813-32-9
809813-33-0	809813-34-1	809813-35-2	809813-36-3	809813-37-4
809813-38-5	809813-39-6	809813-40-9	809813-41-0	809813-42-1
809813-43-2	809813-44-3	809813-45-4	809813-46-5	809813-47-6
809813-48-7	809813-49-8	809813-50-1	809813-51-2	809813-52-3
809813-53-4	809813-54-5	809813-55-6	809813-56-7	809813-57-8
809813-58-9	809813-59-0	809813-60-3	809813-61-4	809813-62-5
809813-63-6	809813-64-7	809813-65-8	809813-66-9	809813-67-0
809813-68-1	809813-69-2	809813-70-5	809813-71-6	809813-72-7
809813-73-8	809813-74-9	809813-75-0	809813-76-1	809813-77-2
809813-78-3	809813-79-4	809813-80-7	809813-81-8	809813-82-9
809813-83-0	809813-84-1	809813-85-2	809813-86-3	809813-87-4
809813-88-5	809813-89-6	809813-90-9	809813-91-0	809813-92-1
809813-93-2	809813-94-3	809813-95-4	809813-96-5	809813-97-6
809813-98-7	809813-99-8	809814-00-4	809814-01-5	809814-02-6
809814-03-7	809814-04-8	809814-05-9	809814-06-0	809814-07-1
809814-08-2	809814-09-3	809814-10-6	809814-11-7	809814-12-8
809814-13-9	809814-14-0	809814-15-1	809814-16-2	809814-17-3
809814-18-4	809814-19-5	809814-20-8	809814-21-9	809814-22-0
809814-23-1	809814-24-2	809814-25-3	809814-26-4	809814-27-5
809814-28-6	809814-29-7	809814-30-0	809814-31-1	809814-32-2
809814-33-3	809814-34-4	809814-35-5	809814-36-6	809814-37-7
809814-38-8	809814-39-9	809814-40-2	809814-41-3	809814-42-4
809814-43-5	809814-44-6	809814-45-7	809814-46-8	809814-47-9
809814-48-0	809814-49-1	809814-50-4	809814-51-5	809814-52-6
809814-53-7	809814-54-8	809814-55-9	809814-56-0	809814-57-1
809814-58-2	809814-59-3	809814-60-6	809814-61-7	809814-62-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809814-63-9	809814-64-0	809814-65-1	809814-66-2	809814-67-3
	809814-68-4	809814-69-5	809814-70-8	809814-71-9	809814-72-0
	809814-73-1	809814-74-2	809814-75-3	809814-76-4	809814-77-5
	809814-78-6	809814-79-7	809814-80-0	809814-81-1	809814-82-2
	809814-83-3	809814-84-4	809814-85-5	809814-86-6	809814-87-7
	809814-88-8	809814-89-9	809814-90-2	809814-91-3	809814-92-4
	809814-93-5	809814-94-6	809814-95-7	809814-96-8	809814-97-9
	809814-98-0	809814-99-1	809815-00-7	809815-01-8	809815-02-9
	809815-03-0	809815-04-1	809815-05-2	809815-06-3	809815-07-4
	809815-08-5	809815-09-6	809815-10-9	809815-11-0	809815-12-1
	809815-13-2	809815-14-3	809815-15-4	809815-16-5	809815-17-6
	809815-18-7	809815-19-8	809815-20-1	809815-21-2	809815-22-3
	809815-23-4	809815-24-5	809815-25-6	809815-26-7	809815-27-8
	809815-28-9	809815-29-0	809815-30-3	809815-31-4	809815-32-5
	809815-33-6	809815-34-7	809815-35-8	809815-36-9	809815-37-0
	809815-38-1	809815-39-2	809815-40-5	809815-41-6	809815-42-7
	809815-43-8	809815-44-9	809815-45-0	809815-46-1	809815-47-2
	809815-48-3	809815-49-4	809815-50-7	809815-51-8	809815-52-9
	809815-53-0	809815-54-1	809815-55-2	809815-56-3	809815-57-4
	809815-58-5	809815-59-6	809815-60-9	809815-61-0	809815-62-1
	809815-63-2	809815-64-3	809815-65-4	809815-66-5	809815-67-6
	809815-68-7	809815-69-8	809815-70-1	809815-71-2	809815-72-3
	809815-73-4	809815-74-5	809815-75-6	809815-76-7	809815-77-8
	809815-78-9	809815-79-0	809815-80-3	809815-81-4	809815-82-5
	809815-83-6	809815-84-7	809815-85-8	809815-86-9	809815-87-0
	809815-88-1	809815-89-2	809815-90-5	809815-91-6	809815-92-7
	809815-93-8	809815-94-9	809815-95-0	809815-96-1	809815-97-2
	809815-98-3	809815-99-4	809816-00-0	809816-01-1	809816-02-2
	809816-03-3	809816-04-4	809816-05-5	809816-06-6	809816-07-7

809816-08-8	809816-09-9	809816-10-2	809816-11-3	809816-12-4
809816-13-5	809816-14-6	809816-15-7	809816-16-8	809816-17-9
809816-18-0	809816-19-1	809816-20-4	809816-21-5	809816-22-6
809816-23-7	809816-24-8	809816-25-9	809816-26-0	809816-27-1
809816-28-2	809816-29-3	809816-30-6	809816-31-7	809816-32-8
809816-33-9	809816-34-0	809816-35-1	809816-36-2	809816-37-3
809816-38-4	809816-39-5	809816-40-8	809816-41-9	809816-42-0
809816-43-1	809816-44-2	809816-45-3	809816-46-4	809816-47-5
809816-48-6	809816-49-7	809816-50-0	809816-51-1	809816-52-2
809816-53-3	809816-54-4	809816-55-5	809816-56-6	809816-57-7
809816-58-8	809816-59-9	809816-60-2	809816-61-3	809816-62-4
809816-63-5	809816-64-6	809816-65-7	809816-66-8	809816-67-9
809816-68-0	809816-69-1	809816-70-4	809816-71-5	809816-72-6
809816-73-7	809816-74-8	809816-75-9	809816-76-0	809816-77-1
809816-78-2	809816-79-3	809816-80-6	809816-81-7	809816-82-8
809816-83-9	809816-84-0	809816-85-1	809816-86-2	809816-87-3
809816-88-4	809816-89-5	809816-90-8	809816-91-9	809816-92-0
809816-93-1	809816-94-2	809816-95-3	809816-96-4	809816-97-5

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809816-98-6	809816-99-7	809817-00-3	809817-01-4	809817-02-5
	809817-03-6	809817-04-7	809817-05-8	809817-06-9	809817-07-0
	809817-08-1	809817-09-2	809817-10-5	809817-11-6	809817-12-7
	809817-13-8	809817-14-9	809817-15-0	809817-16-1	809817-17-2
	809817-18-3	809817-19-4	809817-20-7	809817-21-8	809817-22-9
	809817-23-0	809817-24-1	809817-25-2	809817-26-3	809817-27-4
	809817-28-5	809817-29-6	809817-30-9	809817-31-0	809817-32-1
	809817-33-2	809817-34-3	809817-35-4	809817-36-5	809817-37-6
	809817-38-7	809817-39-8	809817-40-1	809817-41-2	809817-42-3
	809817-43-4	809817-44-5	809817-45-6	809817-46-7	809817-47-8
	809817-48-9	809817-49-0	809817-50-3	809817-51-4	809817-52-5
	809817-53-6	809817-54-7	809817-55-8	809817-56-9	809817-57-0
	809817-58-1	809817-59-2	809817-60-5	809817-61-6	809817-62-7
	809817-63-8	809817-64-9	809817-65-0	809817-66-1	809817-67-2
	809817-68-3	809817-69-4	809817-70-7	809817-71-8	809817-72-9
	809817-73-0	809817-74-1	809817-75-2	809817-76-3	809817-77-4
	809817-78-5	809817-79-6	809817-80-9	809817-81-0	809817-82-1
	809817-83-2	809817-84-3	809817-85-4	809817-86-5	809817-87-6
	809817-88-7	809817-89-8	809817-90-1	809817-91-2	809817-92-3
	809817-93-4	809817-94-5	809817-95-6	809817-96-7	809817-97-8
	809817-98-9	809817-99-0	809818-00-6	809818-01-7	809818-02-8
	809818-03-9	809818-04-0	809818-05-1	809818-06-2	809818-07-3
	809818-08-4	809818-09-5	809818-10-8	809818-11-9	809818-12-0
	809818-13-1	809818-14-2	809818-15-3	809818-16-4	809818-17-5
	809818-18-6	809818-19-7	809818-20-0	809818-21-1	809818-22-2
	809818-23-3	809818-24-4	809818-25-5	809818-26-6	809818-27-7
	809818-28-8	809818-29-9	809818-30-2	809818-31-3	809818-32-4
	809818-33-5	809818-34-6	809818-35-7	809818-36-8	809818-37-9
	809818-38-0	809818-39-1	809818-40-4	809818-41-5	809818-42-6
	809818-43-7	809818-44-8	809818-45-9	809818-46-0	809818-47-1
	809818-48-2	809818-49-3	809818-50-6	809818-51-7	809818-52-8
	809818-53-9	809818-54-0	809818-55-1	809818-56-2	809818-57-3
	809818-58-4	809818-59-5	809818-60-8	809818-61-9	809818-62-0
	809818-63-1	809818-64-2	809818-65-3	809818-66-4	809818-67-5
	809818-68-6	809818-69-7	809818-70-0	809818-71-1	809818-72-2
	809818-73-3	809818-74-4	809818-75-5	809818-76-6	809818-77-7
	809818-78-8	809818-79-9	809818-80-2	809818-81-3	809818-82-4
	809818-83-5	809818-84-6	809818-85-7	809818-86-8	809818-87-9
	809818-88-0	809818-89-1	809818-90-4	809818-91-5	809818-92-6

809818-93-7	809818-94-8	809818-95-9	809818-96-0	809818-97-1
809818-98-2	809818-99-3	809819-00-9	809819-01-0	809819-02-1
809819-03-2	809819-04-3	809819-05-4	809819-06-5	809819-07-6
809819-08-7	809819-09-8	809819-10-1	809819-11-2	809819-12-3
809819-13-4	809819-14-5	809819-15-6	809819-16-7	809819-17-8
809819-18-9	809819-19-0	809819-20-3	809819-21-4	809819-22-5
809819-23-6	809819-24-7	809819-25-8	809819-26-9	809819-27-0
809819-28-1	809819-29-2	809819-30-5	809819-31-6	809819-32-7

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT	809819-33-8	809819-34-9	809819-35-0	809819-36-1	809819-37-2
	809819-38-3	809819-39-4	809819-40-7	809819-41-8	809819-42-9
	809819-43-0	809819-44-1	809819-45-2	809819-46-3	809819-47-4
	809819-48-5	809819-49-6	809819-50-9	809819-51-0	809819-52-1
	809819-53-2	809819-54-3	809819-55-4	809819-56-5	809819-57-6
	809819-58-7	809819-59-8	809819-60-1	809819-61-2	809819-62-3
	809819-63-4	809819-64-5	809819-65-6	809819-66-7	809819-67-8
	809819-68-9	809819-69-0	809819-70-3	809819-71-4	809819-72-5
	809819-73-6	809819-74-7	809819-75-8	809819-76-9	809819-77-0
	809819-78-1	809819-79-2	809819-80-5	809819-81-6	809819-82-7
	809819-83-8	809819-84-9	809819-85-0	809819-86-1	809819-87-2
	809819-88-3	809819-89-4	809819-90-7	809819-91-8	809819-92-9
	809819-93-0	809819-94-1	809819-95-2	809819-96-3	809819-97-4
	809819-98-5	809819-99-6	809820-00-6	809820-01-7	809820-02-8
	809820-03-9	809820-04-0	809820-05-1	809820-06-2	809820-07-3
	809820-08-4	809820-09-5	809820-10-8	809820-11-9	809820-12-0
	809820-13-1	809820-14-2	809820-15-3	809820-16-4	809820-17-5
	809820-18-6	809820-19-7	809820-20-0	809820-21-1	809820-22-2
	809820-23-3	809820-24-4	809820-25-5	809820-26-6	809820-27-7
	809820-28-8	809820-29-9	809820-30-2	809820-31-3	809820-32-4
	809820-33-5	809820-34-6	809820-35-7	809820-36-8	809820-37-9
	809820-38-0	809820-39-1	809820-40-4	809820-41-5	809820-42-6
	809820-43-7	809820-44-8	809820-45-9	809820-46-0	809820-47-1
	809820-48-2	809820-49-3	809820-50-6	809820-51-7	809820-52-8
	809820-53-9	809820-54-0	809820-55-1	809820-56-2	809820-57-3
	809820-58-4	809820-59-5	809820-60-8	809820-61-9	809820-62-0
	809820-63-1	809820-64-2	809820-65-3	809820-66-4	809820-67-5
	809820-68-6	809820-69-7	809820-70-0	809820-71-1	809820-72-2
	809820-73-3	809820-74-4	809820-75-5	809820-76-6	809820-77-7
	809820-78-8	809820-79-9	809820-80-2	809820-81-3	809820-82-4
	809820-83-5	809820-84-6	809820-85-7	809820-86-8	809820-87-9
	809820-88-0	809820-89-1	809820-90-4	809820-91-5	809820-92-6
	809820-93-7	809820-94-8	809820-95-9	809820-96-0	809820-97-1
	809820-98-2	809820-99-3	809821-00-9	809821-01-0	809821-02-1
	809821-03-2	809821-04-3	809821-05-4	809821-06-5	809821-07-6
	809821-08-7	809821-09-8	809821-10-1	809821-11-2	809821-12-3
	809821-13-4	809821-14-5	809821-15-6	809821-16-7	809821-17-8
	809821-18-9	809821-19-0	809821-20-3	809821-21-4	809821-22-5
	809821-23-6	809821-24-7	809821-25-8	809821-26-9	809821-27-0
	809821-28-1	809821-29-2	809821-30-5	809821-31-6	809821-32-7
	809821-33-8	809821-34-9	809821-35-0	809821-36-1	809821-37-2
	809821-38-3	809821-39-4	809821-40-7	809821-41-8	809821-42-9
	809821-43-0	809821-44-1	809821-45-2	809821-46-3	809821-47-4
	809821-48-5	809821-49-6	809821-50-9	809821-51-0	809821-52-1
	809821-53-2	809821-54-3	809821-55-4	809821-56-5	809821-57-6
	809821-58-7	809821-59-8	809821-60-1	809821-61-2	809821-62-3
	809821-63-4	809821-64-5	809821-65-6	809821-66-7	809821-67-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated
with maize and their uses for plant improvement)

IT	809821-68-9	809821-69-0	809821-70-3	809821-71-4	809821-72-5
	809821-73-6	809821-74-7	809821-75-8	809821-76-9	809821-77-0
	809821-78-1	809821-79-2	809821-80-5	809821-81-6	809821-82-7
	809821-83-8	809821-84-9	809821-85-0	809821-86-1	809821-87-2
	809821-88-3	809821-89-4	809821-90-7	809821-91-8	809821-92-9
	809821-93-0	809821-94-1	809821-95-2	809821-96-3	809821-97-4
	809821-98-5	809821-99-6	809822-00-2	809822-01-3	809822-02-4
	809822-03-5	809822-04-6	809822-05-7	809822-06-8	809822-07-9
	809822-08-0	809822-09-1	809822-10-4	809822-11-5	809822-12-6
	809822-13-7	809822-14-8	809822-15-9	809822-16-0	809822-17-1
	809822-18-2	809822-19-3	809822-20-6	809822-21-7	809822-22-8
	809822-23-9	809822-24-0	809822-25-1	809822-26-2	809822-27-3
	809822-28-4	809822-29-5	809822-30-8	809822-31-9	809822-32-0
	809822-33-1	809822-34-2	809822-35-3	809822-36-4	809822-37-5
	809822-38-6	809822-39-7	809822-40-0	809822-41-1	809822-42-2
	809822-43-3	809822-44-4	809822-45-5	809822-46-6	809822-47-7
	809822-48-8	809822-49-9	809822-50-2	809822-51-3	809822-52-4
	809822-53-5	809822-54-6	809822-55-7	809822-56-8	809822-57-9
	809822-58-0	809822-59-1	809822-60-4	809822-61-5	809822-62-6
	809822-63-7	809822-64-8	809822-65-9	809822-66-0	809822-67-1
	809822-68-2	809822-69-3	809822-70-6	809822-71-7	809822-72-8
	809822-73-9	809822-74-0	809822-75-1	809822-76-2	809822-77-3
	809822-78-4	809822-79-5	809822-80-8	809822-81-9	809822-82-0
	809822-83-1	809822-84-2	809822-85-3	809822-86-4	809822-87-5
	809822-88-6	809822-89-7	809822-90-0	809822-91-1	809822-92-2
	809822-93-3	809822-94-4	809822-95-5	809822-96-6	809822-97-7
	809822-98-8	809822-99-9	809823-00-5	809823-01-6	809823-02-7
	809823-03-8	809823-04-9	809823-05-0	809823-06-1	809823-07-2
	809823-08-3	809823-09-4	809823-10-7	809823-11-8	809823-12-9
	809823-13-0	809823-14-1	809823-15-2	809823-16-3	809823-17-4
	809823-18-5	809823-19-6	809823-20-9	809823-21-0	809823-22-1
	809823-23-2	809823-24-3	809823-25-4	809823-26-5	809823-27-6
	809823-28-7	809823-29-8	809823-30-1	809823-31-2	809823-32-3
	809823-33-4	809823-34-5	809823-35-6	809823-36-7	809823-37-8
	809823-38-9	809823-39-0	809823-40-3	809823-41-4	809823-42-5
	809823-43-6	809823-44-7	809823-45-8	809823-46-9	809823-47-0
	809823-48-1	809823-49-2	809823-50-5	809823-51-6	809823-52-7
	809823-53-8	809823-54-9	809823-55-0	809823-56-1	809823-57-2
	809823-58-3	809823-59-4	809823-60-7	809823-61-8	809823-62-9
	809823-63-0	809823-64-1	809823-65-2	809823-66-3	809823-67-4
	809823-68-5	809823-69-6	809823-70-9	809823-71-0	809823-72-1
	809823-73-2	809823-74-3	809823-75-4	809823-76-5	809823-77-6
	809823-78-7	809823-79-8	809823-80-1	809823-81-2	809823-82-3
	809823-83-4	809823-84-5	809823-85-6	809823-86-7	809823-87-8
	809823-88-9	809823-89-0	809823-90-3	809823-91-4	809823-92-5
	809823-93-6	809823-94-7	809823-95-8	809823-96-9	809823-97-0
	809823-98-1	809823-99-2	809824-00-8	809824-01-9	809824-02-0

RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acid mols. and encoded proteins associated
with maize and their uses for plant improvement)

IT	809824-03-1	809824-04-2	809824-05-3	809824-06-4	809824-07-5
	809824-08-6	809824-09-7	809824-10-0	809824-11-1	809824-12-2
	809824-13-3	809824-14-4	809824-15-5	809824-16-6	809824-17-7
	809824-18-8	809824-19-9	809824-20-2	809824-21-3	809824-22-4
	809824-23-5	809824-24-6	809824-25-7	809824-26-8	809824-27-9
	809824-28-0	809824-29-1	809824-30-4	809824-31-5	809824-32-6
	809824-33-7	809824-34-8	809824-35-9	809824-36-0	809824-37-1
	809824-38-2	809824-39-3	809824-40-6	809824-41-7	809824-42-8

809824-43-9 809824-44-0 809824-45-1 809824-46-2 809824-47-3
809824-48-4 809824-49-5 809824-50-8 809824-51-9 809824-52-0
809824-53-1 809824-54-2 809824-55-3 809824-56-4 809824-57-5

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 9005-53-2P, Lignin, preparation 11078-30-1P, Galactomannan

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(improved production of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

IT 7723-14-0, Phosphorus, biological studies 7727-37-9, Nitrogen, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(improved use and/or uptake of; nucleic acid mols. and encoded proteins associated with maize and their uses for plant improvement)

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